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ANNUAL REPORT OF THE DIRECTOR
TO THE
BOARD OF TRUSTEES

FOR THE YEAR 1942

NOV 1 - 1943



REPORT SERIES
FIELD MUSEUM OF NATURAL HISTORY
VOLUME 13, NUMBER 1
JANUARY, 1943

PUBLICATION 530

Natural History 530

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H.L.
Annual Report

PUBLICATIONS
OF
FIELD MUSEUM OF NATURAL
HISTORY

REPORT SERIES
VOLUME 13



CHICAGO, U.S.A.
1942

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JUL 26 1946
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COLONEL CLIFFORD C. GREGG, G.S.C.

Colonel Gregg has been a member of the staff of Field Museum since 1926, and Director since 1937. As a reserve officer of the United States Army, he was called to active service prior to America's entry into the war. In 1942 he was promoted from Major to Lieutenant Colonel, and then to Colonel, and was transferred from the Chicago area to Camp Hood, Texas.

PUBLICATIONS
OF
FIELD MUSEUM OF NATURAL
HISTORY

REPORT SERIES

VOLUME 13



CHICAGO, U.S.A.

1942

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ORR GOODSON

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HERMAN ABENDROTH, <i>Assistant Photographer</i>	

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CAPTAIN OF THE GUARD

E. S. ABBEY

† Resigned.

SOURCES OF OUR STRATEGIC RAW MATERIALS

VITAL WAR MATERIALS FOR WHICH WE ARE LARGELY DEPENDENT ON IMPORTS



SPECIAL WARTIME EXHIBIT

The strategic raw materials for which the United States is largely dependent on foreign sources, and the regions from which they come, are illustrated by this exhibit in Stanley Field Hall.



Annual Report of the Director

1942

To the Trustees of Field Museum of Natural History:

I have the honor to present a report of the operations of the Museum for the year ending December 31, 1942:

Wartime Conditions . . .

Field Museum, like every other institution, faces the fact that our nation is embroiled in the greatest war in history. As a result, adjustments and curtailments have been necessary.

In meeting wartime problems, the Museum administration has endeavored to adapt its policies in three principal directions: (1) to have the Museum do everything it can to aid in the war effort, both on its own part and by co-operation with government agencies and other institutions; (2) to continue to the fullest extent possible the Museum's own important services to public education and scientific research; (3) to maintain the Museum building, exhibits, equipment, study collections, and financial structure in such a manner that it may be prepared for resumption of full or even expanded activities when the war ends and the absent members of the staff return to its halls and laboratories.

The problems involved have been complicated by the serious inroads made upon the institution's personnel by the Army, Navy, and other war services, both military and civilian. By the end of 1942, three Museum Trustees and 25 employees had left for various war duties, and another Trustee and several more employees had completed arrangements and were awaiting orders from the military services. When it is considered that the normal personnel of the institution totals 208 employees (of whom only 152 are males), it is evident that the 25 who have left represent a large proportion of the institution's manpower. Of those who have gone into service, many are scientists and artisans in key positions directly connected with the basic activities of the Museum.

The Trustees have continued the policy, adopted before the entry of the United States into the war, of keeping the positions of those in war service open for their original holders when peace comes. Only a few strictly temporary assistants have been employed.

As additional benefits for employees who have gone into the armed forces, the Trustees inaugurated a policy whereby the Museum pays for government insurance on their lives in an amount equal to the Museum insurance carried on them prior to their induction into military service; and made provision for the purchase of annuities for those who return to the Museum after the war to cover the period of war service, so that at retirement age their pension income will equal that which would have been received had there been no break in their continuity of service to the Museum.

Following is a list of the Museum Trustees, employees, and volunteer associates who had entered war service up to December 31, 1942:

ARMY

Theodore Roosevelt, Trustee—Brigadier General
Clifford C. Gregg, Director—Colonel, G.S.C.
Dr. John Rinaldo, Associate, Southwestern Archaeology—Staff Sergeant
Dr. Sharat K. Roy, Curator, Geology—Captain
D. Dwight Davis, Curator, Anatomy and Osteology—Corporal
Emmet R. Blake, Assistant Curator, Birds—Corporal
Rupert L. Wenzel, Assistant Curator, Insects—Captain
William Beecher, Temporary Assistant, Zoology—Private
Henry Horback, Assistant, Geology—Private
James C. McIntyre, Guard—Second Lieutenant

NAVY

Lester Armour, Trustee—Lieutenant Commander
Joseph Nash Field, Trustee—Lieutenant (Senior Grade)
Colin Campbell Sanborn, Curator, Mammals—Lieutenant (Senior Grade)
Dr. Alexander Spoehr, Assistant Curator, North American Ethnology—Ensign
John W. Moyer, Taxidermist—Chief Specialist (Bureau of Aeronautics)
Patrick T. McEnery, Guard—Master-at-Arms
John Syckowski, Guard—Chief Commissary Steward
George Jahrand, Guard—Chief Water Tender
Clyde James Nash, Guard—Chief Gunner's Mate
Nicholas Repar, Printer—Aviation Machinist's Mate 3C
Morris Johnson, Carpenter—Carpenter's Mate 2C

MARINE CORPS

Melvin A. Traylor, Jr., Associate, Birds—First Lieutenant

COAST GUARD

M. C. Darnall, Jr., Guard—Ensign
John McGinnis, Guard—Chief Boatswain's Mate

OTHER SERVICES

Bert E. Grove, Guide-Lecturer—American Field Service (North Africa)
Rudyard Boulton, Curator, Birds—Staff of Office of Strategic Services
Bryant Mather, Assistant Curator, Mineralogy—Civilian Worker, Corps of Engineers, United States Army
Llewelyn Williams, Curator of Economic Botany—on special service for United States Government

Director Gregg's Departure . . .

Colonel Clifford C. Gregg, Director of the Museum, was called for military service on September 1, 1940, and assigned to duty in the Headquarters of the Sixth Service Command in Chicago. Despite his military duties, Colonel Gregg continued active supervision of the Museum's operations until May, 1942, when he received orders transferring him from the Chicago area.

A farewell reception was given in his honor in the Museum Library with the entire personnel of the institution in attendance. An especially prepared testimonial booklet, voicing the respect and friendship of every man and woman employee of the Museum, was signed by each person and presented to Colonel Gregg. President Stanley Field and Dr. Wilfred H. Osgood, Curator Emeritus of the Department of Zoology, made appropriate addresses.

Since the first World War, when he was a Lieutenant of Infantry, Colonel Gregg had retained his commission in the Army Reserve Corps, continuing his military studies and frequently serving in the summer training camps for reserve officers, thus qualifying himself for promotion. At the time of his call to active duty during the emergency preceding the entry of the United States into the present war, he had attained the rank of Major. In March, 1942, he was promoted to the rank of Lieutenant Colonel, A.G.D., and in December, to a full Colonelcy. Colonel Gregg is now serving as "G-1" on the staff of Major General A. D. Bruce, commanding general of the Tank Destroyer Center at Camp Hood, Texas.

The Board of Trustees appointed Orr Goodson, formerly Assistant to the Director, to serve as Acting Director until Colonel Gregg's return from war service.

Staff "Carries On" . . .

The remaining members of the staff have faithfully assumed extra burdens and carried on with the utmost willingness and co-operation, and this has made possible the maintenance of nearly normal operations.

In addition to the reduction in personnel, the Museum has been seriously affected by general shortages of materials. Many materials required for museum work are unavailable on account of the prior needs of the war effort.

Another major problem is the uncertainty of the financial outlook for this Museum in common with all other endowed institutions.

The factors that govern a wartime economy are not favorable to the yield of satisfactory revenue from the type of investments suitable for endowment funds. Friends of the Museum are called upon to meet increasing demands for aid to causes directly associated with the war. There is also great pressure upon them to invest their surplus funds in war bonds, and they must meet enormously increased taxes. These demands operate heavily against their ability to continue contributions to such institutions as Field Museum. Furthermore, the probable economic consequences to the country of a long war may seriously affect the investments and income of endowed institutions, a possibility that is the cause of great concern to administrative officers.

Museum Activities to Aid War . . .

Among its own contributions to the war effort, the Museum has extended its co-operation into every field in which it could serve. Special exhibits and series of special lectures bearing upon war geography and other war subjects have been offered as a service for the public. The laboratories and shops of the Museum have been placed at the disposal of government agencies for special projects.

An especially notable war undertaking in the Department of Anthropology was the casting of models representing the types of heads found among American Army aviators. The purpose of the project was to determine a standard of measurements for the mass production of oxygen helmets necessary to insure the safety of members of the Air Corps flying at high altitudes. The work was done in conjunction with Mr. G. W. Borkland of the General Plastics Corporation and officers of the Aero-Medical Research Laboratory at Wright Field, Dayton, Ohio.

At the request of the National Research Council, Washington, D.C., Dr. B. E. Dahlgren, Chief Curator of Botany, and Mr. Paul C. Standley, Curator of the Herbarium, undertook for the Surgeons-General of the Army and Navy preparation of several illustrated booklets describing common edible and noxious plants of both tropical America and the Arctic regions. The manuals are for the use of expeditionary personnel. They describe and picture plants valuable as sources of food, or poisonous and to be avoided for other reasons. A supplementary sheet on animal foods available in the tropics was supplied by Mr. Karl P. Schmidt, Chief Curator of Zoology.

Members of the Museum staff, qualified as specialists in various fields, have served as consultants on various subjects. The extensive

files of photographs from all over the world, built up by the Museum in the course of years of expeditionary activities, have been made available to the armed forces and to various branches of the government, as has the Museum Library's collection of maps and charts. The Library has also made available to the services, and to the public in general, special collections of books selected for their bearing on various phases of the prosecution of the war. Co-operation has been extended to the Office of Censorship, and to the over-burdened Post Office Department and the transit systems, by suspending foreign distribution of all Museum publications until after the war. The Museum has co-operated with the Office of Civilian Defense in preparing its building and in training selected members of the staff to cope with any war emergencies that may arise. These precautions are designed to protect visitors in the Museum, and to safeguard the priceless scientific collections housed in the building, as well as to protect the building itself in case of bombing, fire, or other disaster. Included in the steps taken was the training of a number of Museum employees to form first aid, fire-fighting, panic-control and other such units.

In efforts to co-operate with war agencies, Field Museum's maintenance force made a thorough check throughout the building, and up to October had collected twenty-eight tons of scrap metal (including iron, steel, bronze, copper, zinc, and lead), as well as several hundred pounds of scrap rubber. This material was disposed of through the proper channels of the national scrap-collecting campaign.

On the "morale front," Field Museum, like other institutions of its kind, has a large and important part to play. It is generally agreed that despite the war there must be no blackout of science, art and educational endeavor. In this connection, Field Museum has filled a special need by providing exhibits and information about the various war areas. These have been of interest and real service to members of the armed forces about to be dispatched to far parts of the world, and to parents, wives, and other relatives who have been anxious to learn something of the countries to which their fighting men have been sent. The Museum policy in effect at all times (war or peace) of granting free admission to men of any of the armed forces of the United States (or of any of the nations allied with ours in the war) has been credited by commanding officers of the many military units quartered in Chicago and vicinity, or passing through this area, with being a real contribution to the morale and entertainment of troops and sailors.

Field Museum co-operated with the Pan American Council and the Office of the Coordinator of Inter-American Affairs in the nation-wide programs for the observation of Pan American Week (April 12-19). In the month of April a special exhibit was installed emphasizing basic facts concerning solidarity in the western hemisphere. During the week of celebration, members of the Raymond Foundation staff conducted special guide-lecture tours in which this subject was stressed.

Contributions . . .

The Museum administration is especially grateful to those faithful supporters who, in spite of the increasing demands of taxation, and the many calls upon their purses for the purchase of War Bonds and for contributions to various war causes, have nevertheless continued by their generous gifts to aid the Museum in the solution of its revenue problems. Acknowledgment is hereby made both to those who have given money, and those who have given material for use in the exhibits, study collections, and Library.

The outstanding individual contribution in 1942 came, as it has for many years past, from Mr. Marshall Field, a member of the Board of Trustees. The total of his gifts for the year was \$177,966.94.

Mr. Stanley Field, President of the Museum, contributed \$22,200 to the Museum for use in carrying out designated projects (and for purposes to be designated).

The late Joan A. Chalmers made a bequest of \$14,934.75. Her husband, the late William J. Chalmers, had for years been a Trustee of the Museum.

With her customary generosity, which has continued year after year, Mrs. James Nelson Raymond, Founder of the James Nelson and Anna Louise Raymond Foundation for Public School and Children's Lectures, again contributed \$6,000 toward the current expenses of operation of that Foundation.

Mr. Charles Edward Brown gave the sum of \$500 which, added to his previous contributions, made him eligible for election as a Contributor, and he was elected to that membership classification by the Trustees. (Contributors include all those who give or devise between \$1,000 and \$100,000 to the Museum in money or materials, and their names are enrolled on an honor list in perpetuity.)

The Institute of Andean Research, New York, contributed the sum of \$1,500 to cover the cost of publication of a scientific report

on the results of a joint expedition to Ecuador conducted by Mr. Donald Collier for that institution and Field Museum.

From the Estates of Martin A. Ryerson, a former Vice-President of the Museum, and Mrs. Carrie Ryerson, additional accruals of \$1,067.55 and \$5,572.16 respectively, or a total of \$6,639.71, were received. The total of the legacy received over several years from the Ryerson Estates now amounts to \$547,914.

From the Estate of the late Annie S. Coburn was received a bequest of \$1,879.15, and from that of the late Edith Almy Adams, \$149.90, making the total of her benefactions \$33,696.53. In recognition of her bequest, Mrs. Coburn was posthumously elected as a Contributor.

Others who contributed funds to the Museum during 1942 were: Mr. Peder A. Christensen, Mr. I. Archer Levine, Mr. Grant Shoop, Mrs. Henry T. Heald, Dr. Robert H. Jirka, and Mr. Val Seng. Outstanding gifts of material for the collections came from the Estate of the late Louis L. Valentine, Dr. Wilfred H. Osgood, Colonel Wallis Huidekoper, Mr. Henry W. Nichols, Mr. Emil Liljeblad, Mr. Stanley Field, Mr. Walter F. Webb, Dr. B. E. Dahlgren, and others. More details of these and other gifts of material will be found elsewhere in this Report.

From the Chicago Park District Field Museum received \$138,501.22, as its share of taxes levied to aid in the support of several museums under an act of the State Legislature. This was a considerable increase over the preceding year, when \$129,498.70 was received.

A notable accession of the year was the Webb collection of mollusks, obtained through the interest of President Stanley Field. This was one of the most important collections of mollusks remaining in private hands. Accumulated over a period of forty years by Mr. Walter F. Webb, of Rochester, New York, it includes more than 100,000 individual specimens, and is particularly rich in land and fresh-water snails and bivalves. Mr. Webb subsequently made notable additions to the collection by gift. This assemblage of shells is world-wide in scope, fills what had been a serious gap in the zoological collections, and forms a basis for further active research.

Ten highly valued bronze mirrors from China were presented by Mrs. Neva H. Farley, of St. Paul, Minnesota.

Field Museum made a gift of 393 shells from its collections for use in experiments in occupational therapy. The tests are being conducted at the Fitzsimons General Hospital, Denver, Colorado.

Trustees and Officers . . .

Mr. Stanley Field was re-elected President of the Museum for his thirty-fourth consecutive year in that office, at the Annual Meeting of the Board of Trustees, held January 19. At the same meeting, Mr. Albert B. Dick, Jr., was elected Third Vice-President, filling the vacancy caused by the resignation in the previous year of Mr. Albert W. Harris. Other incumbent Officers were re-elected.

The Board of Trustees, at its meeting held December 21, paid tribute to the memory of the late Louis L. Valentine by electing him posthumously as a Contributor, in recognition of his generous gifts of many notable items now exhibited in the Museum's Chinese collections.

News of the passing of Walter P. Murphy, who died December 16, was received with regret at the Museum. Mr. Murphy had been a generous Contributor to the Museum.

New Exhibits . . .

Despite the loss of personnel to military and other government services, and other difficulties attributable to war conditions, good progress was made in the completion and installation of new exhibits. Outstanding are four habitat groups: one an undersea scene showing the marine life of the Galapagos, based on material and data collected by the Leon Mandel Expedition of 1941, installed in the Hall of Fishes (Hall O); another, in Albert W. Harris Hall (Hall 18), showing how loggerhead turtles lay their eggs on Florida beaches; and, in the Hall of Birds (Hall 20), two groups, one showing the eagle owl of the old world, largest of extant owls, being "mobbed" by smaller birds during its daytime blindness, and the second showing the courtship dance of the ruff amid a characteristic environment in the Netherlands.

Among further new exhibits are: a case indicating graphically which American snakes are poisonous, and illustrating their geographical distribution, installed in Harris Hall (Hall 18)—one of the new type of "subjective" exhibits adopted for special purposes in the various departments; another subjective display in the Hall of Vertebrate Anatomy (Hall 19), illustrating the subjects of animal reproduction and embryological development up to and including that of man; an exhibit of the prehistoric tools used by "Peking Man," in George T. and Frances Gaylord Smith Hall (Hall 24); an exhibit of Chinese ivories in the same hall; several exhibits



EAGLE OWL MOBBED BY SMALL BIRDS

The scene represented is typical of Manchuria whence the Museum's specimen came

A new habitat group in the Hall of Birds (Hall 20)



of prehistoric animals in Ernest R. Graham Hall (Hall 38); and the beginning of a series of insect exhibits marked by the installation of a case containing a selected series of the more attractive North American butterflies in Harris Hall (Hall 18). A major work of installation was nearly completed at the end of the year, and ready for opening early in 1943, in the Department of Anthropology. This was the first section, "Indian America," of the new hall (and new type of hall) which is to occupy Hall B and present in a radically new form the principal facts about New World Archaeology.

A special wartime exhibit of the materials defined by the United States Army and Navy Munitions Board as "strategic," "critical," and "essential"—together with a colored map of the world, twelve by seven feet in dimensions, showing where each comes from and why many are now so difficult to obtain—was installed in Stanley Field Hall.

Attendance . . .

There was a sharp decline (approximately 25 per cent) in the number of visitors at the Museum during 1942 as compared with the previous year. The natural preoccupation of the public with war activities, the many transportation difficulties resulting from the tire conservation program, the curtailment of public transportation and the increased burdens placed upon public conveyances—and the further accentuation of all these problems towards the end of the year with the inauguration of gasoline rationing—might have been expected to cause an even more adverse effect upon attendance. The prospects are that a still further decline will be experienced in 1943 since it seems probable that gasoline rationing will then run through all twelve months.

For a short time, because of the tire and gasoline conservation programs, Sunday bus service into Grant Park for visitors to Field Museum, the Shedd Aquarium, and the Planetarium, was canceled, but efforts made by the administration of the Museum obtained partial restoration of this service. Officials of the Chicago Motor Coach Company and the Office of Defense Transportation are to be commended for recognizing the educational value of the institutions affected, and for continuing thus to make them available to the thousands of Chicagoans who have no time other than Sundays to visit them and no other means of transportation.

The total number of visitors coming to the Museum in 1942 was 1,025,002, as against 1,358,147 in 1941. It is gratifying that attend-

ance did not drop below the million mark, which has been surpassed every year since 1927. Of the visitors in 1942, 79,144 paid the nominal admission fee and federal tax charged on four days of the week; all the rest came on the three free days (Thursdays, Saturdays and Sundays), or belonged to classifications admitted free on all days, viz. children, teachers, Museum members, and members of the armed forces. Paid admissions showed a decline of 8.5 per cent against a decline of 25 per cent in attendance.

The Museum's influence is not confined to those who actually enter its portals. Its benefits are extended every year to several hundred thousand school children by the circulation of the N. W. Harris Public School Extension's traveling portable exhibits to hundreds of schools and other institutions. Further, 167,414 children were reached by the activities of the James Nelson and Anna Louise Raymond Foundation for Public School and Children's Lectures which, in addition to motion picture programs in the Theatre, lecture tours, and other programs presented within the Museum, also sends extension speakers out to hundreds of schools to give lectures and demonstrations before children in their classrooms and assembly halls. (Of the total, 100,777 children were reached by the *extra-mural* activities.)

The Museum continued efforts to bring scientific information to other sections of the public by such means as articles in newspapers and periodicals, the institution's own leaflets and publications, programs on the radio, and motion pictures.

Large audiences were attracted to the annual Spring and Autumn courses of illustrated lectures for adults in the James Simpson Theatre on Saturday afternoons during March, April, October, and November. The Raymond Foundation entertainments for children in the Theatre on Saturday mornings during the same months, and a series of summer programs on Thursdays during July and August were well attended. The Sunday afternoon "Layman Lectures" presented from January to April, and from October through December by Mr. Paul G. Dallwig continued to be popular, as were the daily guide-lecture tours for both adults and children presented throughout the year (except on Sundays) by staff lecturers of the Raymond Foundation. Various facilities of the Museum, such as the Theatre and the Lecture Hall, as well as the services of guide-lecturers, were used by numerous special groups of adults and children through arrangements made with the Acting Director. The aggregate attendance for all of these events (comprising 1,050 audience-groups) was 86,734.

The motion picture equipment of the James Simpson Theatre was modernized by the purchase and installation of a 16-millimeter are projector with sound reproducing apparatus, monitor speaker, and accessories. This has resulted in improved presentation of films.

Raymond Foundation . . .

The Raymond Foundation was hampered to some extent in its presentations of lectures, tours, motion pictures, and other programs by many changes attributable to war conditions, such as the discontinuance of the special busses. This made it difficult or impossible for school groups, both in and out of Chicago, to come to the Museum. The effects became marked in April and May—months when, in ordinary years, groups coming to the Museum would average about 1,000 students a day; this type of group attendance dropped about 50 per cent. At a season when, in 1941, 1,000 groups composed of 39,806 individuals were received, the number of groups in 1942 was 520, and the individuals numbered 18,510.

However, the motion picture programs offered, as in former years, on Thursdays during July and August, and Saturdays during March, April, October, and November, showed increased attendance in 1942, with audiences aggregating 32,825 at 44 such programs, as against 28,798 at 46 programs in 1941.

Loss and change of personnel on the Raymond Foundation staff, as well as war-engendered transportation difficulties, have curtailed to some degree the extension lectures given in Chicago public, parochial and private schools. Each school was given one lecture on request. There were 261 such extension lectures in 1942, attended by 100,777 children, as against 441 with attendance of 154,562 in 1941. As soon as possible this extension lecture service will be expanded to its former dimensions. The extension lectures covered 40 different subjects for elementary schools, and 24 for high schools. Among some entirely new ones added in 1942 were war topics such as "Strategic Materials," "Brazil, A Country of Important Resources," "Forest Products of the World," "Man's Animal Enemies," and "The Story of Africa." For the first time a lecture entitled "Life in Streams, Ponds and Marshes," illustrated with natural color slides, was offered to schools possessing the proper type of projector.

Countless inquiries for information on war materials, and on countries where the battles are being fought, dictated the wisdom

of placing emphasis on such topics in the tours, lectures, and motion picture programs offered for the enjoyment and education of school groups and the general public both in and outside the Museum. In response to the requests of many Chicago people who remained in the city for their vacations, a special series of illustrated lectures and tours was offered on Thursday afternoons during July and August, under the general title "Backgrounds of the War." Subjects included were: "Materials of Strategic Importance in War Time," "Africa," "Alaska," "Brazil," "Animal Enemies in the War Zones," and "China." These lectures were well attended, the majority of the listeners following the entire series. By popular request the first lecture was repeated.

Northwestern University's "School Officers' Institute," which offered a week's program to rural school board members from the state of Michigan, brought several groups investigating Chicago's educational activities and opportunities to Field Museum. Each of these groups was given a brief but comprehensive explanation and tour in the exhibition halls and a subsequent result was that many rural schools sent parties of children on visits to the Museum.

"Field Museum Stories" on seventeen subjects, written by Raymond Foundation staff members, were distributed to some 20,000 children at the regular spring and fall series of motion picture programs.

Tours of Museum exhibits were given for 520 groups from Chicago and suburban public, parochial and private schools, and a few clubs and miscellaneous organizations. The attendance totaled 18,510. Ten radio follow-up programs were given in the Museum following regular broadcasts of the Chicago Public School Broadcasting Council. These programs featured many war subjects. Attendance numbered 978.

Many groups visiting the Museum request introductory lectures to provide understanding and background. These talks are usually illustrated with slides, and occasionally with motion pictures. In 1942 there were 60 of these lectures, with attendance of 5,379.

Despite prevalent transportation difficulties, the Four-H Clubs sent farm boys and girls from all over the country on visits to Field Museum during their autumn sojourns in Chicago, in accordance with their custom of many years' standing. The Museum was host to about 450 of the girls on November 30, to 384 of the boys on December 1, and to a smaller group which made a special tour on December 5. They were given special lectures and tours by the staff of the Raymond Foundation.



BRANCH AND BARK OF CORK OAK
Hall of Foreign Woods (Hall 27)



Layman Lectures . . .

Special commendation is due to Mr. Paul G. Dallwig, the Layman Lecturer, who continued his popular talks, inaugurated in 1937. These have attracted much attention because of their novel mode of presentation, and the interesting manner in which they interpret scientific subjects for the ears of laymen. From the beginning of this activity, Mr. Dallwig has given his Sunday afternoon lectures on a purely volunteer basis without compensation either from the Museum or from his audiences. During 1942 his lectures ran for eight months, from January to May inclusive, and from October to December inclusive, a total of thirty-five Sunday presentations. A different subject was covered each month. The total attendance for all thirty-five lectures was 3,769. Since Mr. Dallwig's first official appearance at the Museum on October 3, 1937, he has addressed audiences aggregating 16,108 persons. The titles of Mr. Dallwig's lectures during 1942 were: "Nature's 'March of Time,'" "Digging Up the Cave Man's Past," "The Parade of the Races," "The Romance of Diamonds," "Who's Who in the Mounted Zoo," "Gems, Jewels, and 'Junk,'" and "Mysterious 'Night-Riders' of the Sky."

In addition to his regular lectures, Mr. Dallwig gave a special lecture at the Museum on "Gems, Jewels, and 'Junk.'" before an audience of members of the American Gem Society who came to the Museum on March 17. He also gave many lectures outside the Museum before women's clubs, Rotary Clubs, and various associations, thus bringing Museum subject material to additional audiences of more than 5,000 people, with considerable favorable publicity in the press.

Expeditions Cease . . .

Expeditions, and also most minor field work, were discontinued during 1942 for the duration of the war. A few expeditions which had begun their work in the previous year remained in the field during part of 1942 in order to complete projects already under way.

The major expeditions that returned, after carrying their work over from 1941, were as follows:

Field Museum Paleontological Expedition to Honduras, led by Dr. Paul O. McGrew, Assistant Curator of Paleontology, which obtained fossil mammal collections.

The joint expedition of the Institute of Andean Research and Field Museum to Ecuador, under the leadership of Field Museum's Curator of South American Archaeology and Ethnology, Mr. Donald Collier. In five months of excavations this expedition uncovered hitherto unknown archaeological sites and obtained collections of artifacts which may form the nucleus for further research and excavations in the post-war period.

Prior to accepting a commission as Lieutenant in the United States Navy, Mr. Colin Campbell Sanborn, Curator of Mammals, completed his zoological expedition in Peru, and collected a large number of desired specimens in valleys of remote tributaries of the Amazon. The collections obtained by Curator Sanborn, together with previous material obtained by the Magellanic Expedition of which he was a member in 1939-40, give Field Museum an excellent representation of the vertebrates of southern Peru. Through the courtesy and co-operation of officials of the Peruvian government, the University of San Marcos at Lima, and the Museo Javier Prado connected with the university, arrangements were made whereby Field Museum will continue to take special interest in the zoology of Peru, and will have the collaboration of the Peruvian institutions in research projects connected with this subject.

Dr. Julian A. Steyermark, Assistant Curator of the Herbarium, returned after completing the work of the Fourth Field Museum Botanical Expedition to Guatemala, which resulted in the amassing of some 30,000 herbarium specimens and several hundred wood specimens for the Department of Botany. He covered much territory previously unworked by botanists.

Mr. Llewelyn Williams, Curator of Economic Botany, in Venezuela on a mission for the government of that country, concurrently made collections for the Department of Botany of Field Museum.

Mr. James H. Quinn, Chief Preparator in Paleontology, and Mr. Orville Gilpin, of the Division of Paleontology, made a field trip to Utah to collect the fossil remains of a large dinosaur required to complete the huge *Apatosaurus* skeleton in Ernest R. Graham Hall (Hall 38). This specimen had been brought to light during the previous year, and it would have deteriorated if it had been left longer exposed to the elements.

Dr. B. E. Dahlgren, Chief Curator of Botany, collected herbarium material in Cuba; Dr. Wilfred H. Osgood, Curator Emeritus of Zoology, collected mammals in Arizona and California; Mr. Loren P. Woods, Assistant Curator of Fishes, aided by the Preparator of Accessories, Mr. Frank H. Lett, Staff Taxidermist Leon L. Pray,

and others not of the Museum staff, conducted a diving expedition in Lake LaGrange, Cass County, Michigan, to obtain data and material needed for an underwater habitat group of fresh-water fishes now in preparation; and Staff Taxidermist C. J. Albrecht made studies of living porpoises at the Marineland Aquarium in Florida in preparation for making models of whales and their relatives.

Personnel Changes . . .

In addition to the appointment of the present Acting Director, and the departure of various employees into war service, to which reference has already been made, the following staff changes occurred during the year:

Mr. Elmer S. Riggs, Curator of Paleontology, retired from the service of the Museum on September 15. He had been associated with the institution for forty-four years, and in the course of his notable career had conducted twelve expeditions in various parts of both North and South America. He and the men who worked under his supervision were responsible for collecting a major portion of the Museum's paleontological material, which constitutes a large and important collection. During the course of his work, Mr. Riggs discovered numerous new genera and species, and his publications upon these and other subjects are notable in the literature of his science. The Museum staff gave a farewell tea in his honor, and presented him with a set of testimonial volumes on the eve of his departure.

Mr. Bryan Patterson, a member of the Museum staff since 1926, and Assistant Curator since 1935, was immediately appointed Acting Curator of Paleontology following Mr. Riggs' retirement, and at the end of the year was given the full appointment as Curator. He has conducted a number of fossil-hunting expeditions, and has published extensively within the scope of his subject. Dr. Albert A. Dahlberg, former head of the Dental Clinics of Albert Merritt Billings Hospital, was appointed Research Associate in Paleontology.

Dr. Fay-Cooper Cole, Chairman of the Department of Anthropology at the University of Chicago, was appointed Research Associate in Malaysian Ethnology; and Mr. George I. Quimby, Jr., was appointed Assistant Curator of North American Archaeology.

Miss Elizabeth Hambleton resigned from the staff of the James Nelson and Anna Louise Raymond Foundation, and Mrs. Leota G. Thomas, another Raymond lecturer, was granted indefinite leave of absence. Miss Jeanne Bailey, Miss Virginia Drew, and Miss Loraine

Lloyd were appointed lecturers on the Raymond Foundation staff, but Miss Bailey resigned before the end of the year because of her marriage, and Miss Drew resigned to accept a fellowship from the University of Chicago to study the life of Indians in Brazil.

Dr. Alexander Spoehr, Assistant Curator of North American Ethnology (on leave as an Ensign in the United States Navy), and Mr. Donald Collier, Assistant Curator of South American Ethnology and Archaeology, have been promoted to positions as full Curators of their Divisions.

Mr. William J. Beecher was given a temporary appointment as Assistant in the Department of Zoology, but subsequently left to answer his call for induction into the Army. Mr. Henry S. Dybas was appointed as a temporary Assistant in the Division of Insects.

Dr. B. E. Dahlgren, Chief Curator of Botany, reached retirement age during the year, but accepted the invitation of the Board of Trustees to continue in active service. Mr. William H. Corning, General Superintendent, also reached retirement age, but continued in his position at the invitation of the Board of Trustees.

Mr. Joseph Todd, carpenter, retired on pension in March, due to ill health. Mr. John Anderson, carpenter in the Department of Anthropology, retired on pension November 1, owing to advanced age. Mr. A. B. Wolcott, for thirty years Assistant Curator of the N. W. Harris Public School Extension, retired on pension February 1, because of advancing years and ill health.

Mr. A. A. Miller, Collotypist, retired on pension March 1, and subsequently died. Other Museum employees who died during the year include: Mr. George Parmenter, electrician; Mrs. Adelaide F. Hackbarth, for many years the Museum's switchboard operator; Mr. J. E. Patterson, carpenter; Mr. J. W. Harrison, retired and pensioned preparator in Anthropology; and Mr. Thomas Hardy, retired and pensioned guard. Under the Museum's group insurance policy, sums ranging from \$1,000 to \$3,000 were paid to the beneficiaries of each of the deceased.

Mr. Rudyerd Boulton, Curator of Birds, was granted indefinite leave of absence to accept an appointment to the staff of the Office of Strategic Services at Washington, D.C. With Mr. Boulton thus absent, with Mr. Emmet R. Blake, Assistant Curator of Birds, in the Army, and with Mr. John W. Moyer, Bird Taxidermist, in the Navy, it is gratifying to note the invaluable service in the care of the reference collection which has been given by Mr. Boardman Conover, Research Associate, and by Mrs. Hermon Dunlap Smith, Associate in the Division of Birds.

Dr. Julian A. Steyermark, Assistant Curator of the Herbarium, was granted an indefinite leave of absence to accept a position under the auspices of the federal government's Board of Economic Warfare. He will be employed in special work in connection with strategic plant products of Central and South America. Mr. Llewelyn Williams, Curator of Economic Botany, was also granted leave of absence for special war work for the United States government.

Mr. Frank Boryca, Assistant Preparator in the Plant Reproduction Laboratories of the Department of Botany, took leave of absence to enlist in the United States Marine Corps, but after several months in that service was given an honorable discharge and returned to his work at the Museum.

In recognition of the impact of increasing taxes and rising costs of living, the Board of Trustees voted a general bonus for the year 1942 of \$75 each to all Museum employees earning salaries of \$3,000 a year or less.

An innovation of the year was the closing of all offices in the Museum all day Saturdays during the period from July 4 to September 5, and dismissing all employees on these additional half-days except guards, door attendants, and janitors, who have to continue their duties as usual in order that the Museum exhibits may remain open to the public.

A payroll deduction plan was inaugurated whereby Field Museum employees may purchase war bonds on a regular schedule.

Special Staff Activities . . .

Many members of the staff of Field Museum were the recipients of special honors conferred by other institutions during the year. Others distinguished themselves by special activities in scientific research outside their Museum duties, in special services to the government in connection with the war, or as lecturers on various subjects before audiences in many parts of the country, and on the radio. Many visited institutions in other cities to supplement their research material; others participated in field work in a variety of locations; still others broadened their scientific outlook by contact with their colleagues from kindred institutions at the meetings of various learned societies. Some examples of these forms of activity are cited in the following paragraphs:

Dr. Wilfrid D. Hambly, Curator of African Ethnology, was appointed to membership on the African Committee of the Ethnographic Board of the National Research Council. He attended

several meetings at Washington, D.C., in a consultative capacity on matters pertaining to the war, and conducted much organization and research work for this purpose concurrently with his work at the Museum.

The degree of Doctor of Philosophy was conferred by the University of Chicago upon Assistant Curator Paul O. McGrew of the Division of Paleontology, in recognition of his researches and publications.

Mr. Karl P. Schmidt, Chief Curator of Zoology, was appointed by the University of Chicago as Lecturer in the Department of Zoology. Mr. Schmidt was honored also by election as President of the American Society of Ichthyologists and Herpetologists, and by appointment to the editorial board of the *American Midland Naturalist*.

Dr. Paul S. Martin, Chief Curator of Anthropology, was appointed by the University of Chicago as a Research Associate (with the rank of full professor) in its Department of Anthropology. Dr. Martin will from time to time give special lectures for classes at the University, and later will give a special course at the Museum in museology.

Leave of absence was granted to Mr. J. Francis Macbride, Associate Curator of the Herbarium, to give him opportunity for studies at various herbaria in the west in connection with his publication on the flora of Peru. He also made studies of the work being done by the Guayule Emergency Rubber Project of the United States government at Salinas, California, and conducted researches at institutions in Washington, D.C., and at the University of California at Berkeley and Los Angeles.

Dr. Wilfred H. Osgood, Curator Emeritus of Zoology, attended the meetings of the Cooper Club (an organization of naturalists of which he was one of the original founders forty-nine years ago), at San Diego, California. Mrs. Emily M. Wilcoxson, Librarian, and Mrs. Mary W. Baker, Associate Librarian, attended the meetings of the American Library Association held at Milwaukee, Wisconsin, and the Illinois Library Association in Chicago. Mr. James H. Quinn, Chief Preparator in Paleontology, spent several weeks in the east studying preparation and installation methods used in other museums.

Staff Taxidermist John W. Moyer prepared the article on taxidermy to appear in a new edition of the *Encyclopaedia Britannica*. Mr. Moyer also prepared the text for a Taxidermy Handbook to

be published by the Boy Scouts of America for their Merit Badge Series, illustrations for which were made by Staff Artist Arthur G. Rueckert.

The Museum was represented by Mr. H. B. Harte, its Public Relations Counsel, in the activities of the Publicity Club of Chicago which has become a vital factor in relations between the press, the publicity men and women of the city, and the various institutions employing press representatives. Mr. Harte was appointed a member of the organization's Committee on Education. The Museum donated part of his time and services to the publicity office of the United States Treasury's Chicago War Savings Staff, to promote the sale of war bonds and stamps. Later, Mr. Harte enlisted for the duration of the war in the United States Coast Guard Reserve (T) to serve part time on lake and river patrols in this area, and became Managing Editor of the magazine published by the Coast Guard Auxiliary to promote education in service routines.

Among those who lectured before meetings of scientific societies, university classes, and general audiences of laymen, and on the radio were: Dr. Paul S. Martin, Chief Curator of Anthropology; Dr. C. Martin Wilbur, Curator of Chinese Archaeology and Ethnology; Staff Taxidermist C. J. Albrecht; Staff Taxidermist John W. Moyer; Dr. Julian A. Steyermark, Assistant Curator of the Herbarium; Mr. J. Francis Macbride, Associate Curator of the Herbarium; Mr. Karl P. Schmidt, Chief Curator of Zoology; Dr. Wilfred H. Osgood, Curator Emeritus of Zoology; Mr. Rudyerd Boulton, Curator of Birds; Mr. Loren P. Woods, Assistant Curator of Fishes; and Miss Miriam Wood, Miss Marie B. Pabst, and Mrs. Leota G. Thomas, of the Raymond Foundation staff.

Volunteer Workers . . .

As in other years, the Museum has benefited greatly from the assistance rendered by volunteer workers who have contributed their time without remuneration to aid the over-burdened regular staff in both research work and routine tasks. The names of some of these volunteer workers appear in the List of the Staff at the beginning of this Report, distinguished from salaried workers by the titles "Research Associate" and "Associate." Mr. Paul G. Dallwig, the Layman Lecturer, also serves without compensation. For their services, grateful acknowledgment is made to all who are thus listed, and to the following additional volunteers: In the *Department of Anthropology*: Mr. Leonard Johnson, Miss Berenice

Crown, Mr. and Mrs. Millard Rogers, Miss Justine Mayer, Miss Dixie Davis, Mrs. Iva Schmidt, Miss Jane Darrow, Mrs. Rose Miller. *Department of Botany*: Mr. Donald Richards, Mrs. Catharine M. Richards. *Department of Zoology*: Dr. Harry Sicher, Dr. Walter Segall, Mrs. Marian Gray, Mr. Eugene Ray, Mr. David Owens, Mr. Robert Haas, Mrs. John Morrow, Miss Marion Clow. *N. W. Harris Public School Extension*: Miss Anne Rosner.

Harris School Extension . . .

The preparation of portable museum exhibits, and their circulation in Chicago schools by the N. W. Harris Public School Extension, continued as an important contribution of Field Museum to the instruction of school children and other young people in elementary science. A slight gain in the number of schools served brought the total at the end of the year to 497.

Twenty new exhibits were prepared, on carnivorous plants, jack-in-the-pulpit, feather structure, and bird topography, and three cases on natural hydrocarbons were revised. New specimens, labels, and rearrangements provided more effective display, and improved teaching value. A total of 1,098 portable exhibits was available at the end of the year.

Incidental collecting by staff members, gifts from individuals, and transfers of material from the scientific departments of the Museum supplied a total of 279 specimens for the preparation of new exhibits, or to augment reserve collections.

The number of requests to borrow particular cases or collections of material decreased in 1942, after several years of growing demand for unmounted specimens that could be handled by pupils. This decline is apparently an effect of the war's impact on school activities and interests. Twelve hard fiber hand cases, especially designed, were purchased to pack loan collections of this type.

There was no loss or irreparable damage to any of the cases in circulation during the year; however, 419 cases required repairs or reinforcing parts.

In December, restrictions were imposed by the Office of Defense Transportation on the use of the Museum's delivery trucks, necessitating revision of delivery schedules. The loan period for cases has been lengthened from ten days to thirteen days to reduce truck mileage.

By means of a questionnaire, a survey was made of the various procedures followed at each school in handling Harris Extension

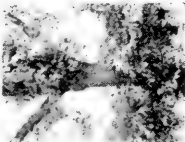
POISON IVY

Creeping in the woods or along waysides may have disagreeable consequences when one knows ivy. Comes with the poison sap of this plant of the family. The sap, when rubbed on the skin, causes a severe itching and burning. The sap is found even in the young plants which extend throughout the plant. Any one who touches the plant should wash the hands and the body with soap and water. If poisoning occurs, the body should be thoroughly washed with strong soap and water. In poisoning the skin may become itchy and red, and the patient may feel more or less ill. In severe cases, the patient may feel more or less ill. In severe cases, the patient may feel more or less ill.

If one knows, or even suspects, that he has been touched by the plant, he should wash his body thoroughly with strong soap and water. In poisoning the skin may become itchy and red, and the patient may feel more or less ill. In severe cases, the patient may feel more or less ill. In severe cases, the patient may feel more or less ill.

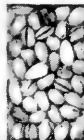
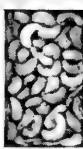
B. 10

POISON IVY



Poison ivy, like poison oak, grows by being either low and shrubby or tall and bushy. It is found in many places, the more likely to be found in the woods. It is found in the woods, the more likely to be found in the woods. It is found in the woods, the more likely to be found in the woods.

B. 11



THE NEW HARRIS PUBLIC SCHOOL EXTENSION OF FIELD MUSEUM - LAND - BY -

PORTABLE NATURAL HISTORY EXHIBIT FOR CHICAGO SCHOOLS
Prepared by the N. W. Harris Public School Extension of Field Museum
One-sixth actual size

cases, as a preliminary to an analysis of the use and effectiveness of these visual aids to instruction. From the data obtained, it is hoped to establish reliable criteria for the selection and organization of future subject matter.

Membership . . .

It is regretted that a net decrease of 49 must be reported in the number of Museum Members for 1942. Many Members are now serving with the armed forces, and because those remaining are confronted with the necessity of continuing to give aid to a great variety of war causes, a decrease was to be expected—it is the first decrease in membership since 1938. During the year a total of 377 new Members were enrolled, while a total loss of 426 Members was incurred through transfers, cancellations, and deaths. The total number of memberships as of December 31, 1942, was 4,265.

In view of the war demands upon everyone, the administration of Field Museum is most grateful to all those Members who have continued their loyal support, as well as to the new Members who have associated themselves with the activities of the institution. It is very largely through their co-operation and support that the continuance and expansion of the educational and cultural activities of Field Museum are made possible. To those Members who found it necessary to discontinue their memberships and to those who have joined the armed forces, an invitation is extended to enroll again as Members whenever they may find it possible to do so.

The following tabulation shows the number of names on the list of each of the membership classifications at the end of 1942:

Benefactors.....	23
Honorary Members.....	12
Patrons.....	25
Corresponding Members.....	7
Contributors.....	130
Corporate Members.....	46
Life Members.....	234
Non-Resident Life Members.....	12
Associate Members.....	2,368
Non-Resident Associate Members.....	8
Sustaining Members.....	9
Annual Members.....	1,391
<hr/>	
Total memberships.....	4,265

The names of all persons listed as Members during 1942 will be found on the pages at the end of this Report.

Public Relations . . .

The year 1942 dawned with apparently poor prospects for Field Museum publicity, due to the increased demands of world events upon the limited space of newspapers curtailed in size. Actually, however, owing to an emphasis on Museum material having a bearing on war geography, strategic materials, and other "spot news" subjects of the day, the year turned out to be one of the most successful from the standpoint of keeping the Museum in the public eye, vitalizing its exhibits and activities, and relating them to the phases of life currently uppermost in the minds of our citizens.

The Museum obtained publication of articles running as much as a full Sunday newspaper page on its exhibits associated with localities in which battles were raging, or related to topics which were in the forefront of public discussion because of rationing and conservation programs. Outstanding among these subjects were: the Coral Sea, islands of the Pacific, Madagascar, Africa, China, rubber, sugar, coffee, and strategic materials.

Acknowledgment is made of the splendid co-operation extended by the *Chicago Daily News*, *Chicago Sun*, *Chicago Daily Times*, *Chicago Tribune*, *Chicago Herald-American*, and *Chicago Journal of Commerce*. Mr. H. B. Harte, the Museum's Public Relations Counsel, enjoyed particularly helpful co-operation on the part of a number of editors, special writers, and columnists. For expediting transmission of news from Field Museum to various local papers, the Museum is grateful to the office staff of the City News Bureau; and for its transmission to newspapers all over this country and to foreign countries, to the staffs of the Associated Press, United Press, International News Service, and Science Service. Frequent mention of Museum events was made also on radio news programs by a host of announcers. Much desirable publicity was obtained by circulating Museum news releases to the several hundred neighborhood and foreign language newspapers scattered around Chicago, and suburban and other dailies and weeklies published in the environs of Chicago, and in the Middle West.

More than 350 news releases, an average of almost one a day throughout the year, accompanied in many cases by photographs, were prepared by the Public Relations Counsel, and distributed through the various channels noted. In many cases these releases stimulated editors to follow up by sending their own staff reporters and photographers for additional material. Newspaper editorials also occasionally resulted from Museum stories.

A feature-length motion picture with sound, "Background for Tomorrow," telling the story both of the exhibits and of the "behind the scenes" activities of Chicago's several great museums was made by Atlas Productions, Inc. It includes an opening section on Field Museum prepared in accordance with suggestions made by the Acting Director, the several Chief Curators, various other members of the scientific and technical staff, and the Public Relations Counsel. The film, sponsored by the Chicago Association of Commerce, is being used for exhibition before high schools, parent-teacher associations, and other groups interested in education and civic activities.

The Division of Public Relations co-operated on a more extensive scale than ever before with the similar divisions of the other leading museums of Chicago in various joint newspaper projects and other promotional work intended to make Chicagoans and visitors from other localities more conscious of the cultural opportunities afforded by this city.

The monthly *Field Museum News*, especially published to keep the several thousand members of the Museum constantly informed of all the institution's activities, and to bring them illustrated articles on various scientific topics, was continued for its thirteenth volume and year. One issue was omitted during the summer, as a war-necessitated measure. In December, a special enlarged edition was published as a Christmas number including an illustration, in full colors, of the new Galapagos fish group. When the Director of the Museum, Colonel Clifford C. Gregg, was transferred in May from the Chicago area to an Army post in Texas, Dr. Wilfred H. Osgood, Curator Emeritus of Zoology, assumed the editorship of the *News*.

In addition to maintaining contact between the Museum and its Members, the *News* serves various newspapers, general magazines, trade and technical journals, and radio commentators as a source of information regarding the Museum's work.

The Museum is again indebted to various transportation companies and other organizations for making available without charge the advertising facilities they control. Among these are: the Chicago, Aurora and Elgin Railroad, the Chicago, North Shore and Milwaukee Railroad, the Chicago and North Western Railway, the Chicago Rapid Transit Lines, and the Chicago Surface Lines. Posters and placards advertising Museum lectures and other activities were displayed at stations and in cars of these companies. Likewise, through such media as office buildings, hotels, convention committees, schools, and stores, placards were displayed, and thousands

of copies of folders describing the Museum or announcing lectures were distributed. The principal conventions held in Chicago were invited to urge their delegates to visit the Museum, and many large groups came as a result.

Library . . .

The number of outsiders consulting the Library has been reduced by the war in the same way as general Museum attendance, chiefly because of curtailed transportation. However, more inquiries by telephone are received than formerly, and thus the Library service is being maintained on a large scale. During 1942 several groups of young people have visited the Library and learned something of its special resources, and this should result in future increased use.

The war has also affected the receipt of foreign periodicals. Many of these are being allowed to accumulate at the source for the duration, but a few continue to arrive with reasonable regularity. Exchanges have always been important sources of increases in the Library, but since the war began very few foreign institutions have been able to send their publications. Field Museum, likewise, is suspending shipment of its publications for foreign exchange until after the war. Institutions in this country have continued to send valuable publications.

Work has continued on the revision of the Union List of Serials, one of the Library's most important reference tools.

In the American Library Association's "Victory Book Campaign" the Library of Field Museum and various members of the staff gathered a good collection to be sent to men in the armed forces.

The repair and rebinding of books was continued vigorously, and nearly 9,000 volumes have now received treatment. When this important project has been finished it should be possible to maintain current material in good condition.

The Library continued filling out the files of incomplete sets of various periodicals. Among the periodicals secured are the *Entomologist's Monthly*, 76 volumes; *Journal of Animal Ecology*, 8 volumes; *Journal of Conchology*, 21 volumes; *Journal of Ecology*, 21 volumes; *Parasitology*, 11 volumes.

Some extremely desirable additions of books have been purchased. Among these are *Edwards' Botanical Register*, 34 volumes, 1815-1847; Linnaeus, *Parte Practica de Botanica*, 8 volumes, 1784; Rheede tot Draakestein, *Hortus Indicus Malabaricus*, 12 volumes,

1686-1703; Rumpf, *Herbarium Amboinense*, 7 volumes, 1750-1755; Biringuccio, *Pirotechnia* (translation—original published 1540); Coon and Chapple, *Principles of Anthropology*; Creswell, *Early Muslim Architecture*; Ferguson, *Survey of Chinese Art*; Lengyel, *Dakar*; Thompson, *Thailand*; *Biological Symposia*; Ferussac, *Histoire Naturelle Générale et Particulière des Mollusques*, 3 volumes, 1819-1851; Kent, *Manual of Infusoria*, 3 volumes, 1880-1882.

The Library has received many much appreciated gifts. Mr. Elmer S. Riggs, Curator of Paleontology, at the time of his retirement presented his personal library representing in great part the writings of contemporaries in his science. Mr. Henry W. Nichols, Chief Curator of Geology, presented a valuable collection of periodicals, many of which have been bound during the year. He has also notified the Museum that he has executed a codicil in his will bequeathing his books to the Library at his death. President Stanley Field presented a valuable set of Hastings' *Encyclopaedia of Religion and Ethics*, in 12 volumes, and Hutchinson's *Customs of the World*. He also continued giving current numbers of the *Illustrated London News* and the *Audubon Magazine*. Colonel Clifford C. Gregg (Director of the Museum, on leave for war service) gave numbers of many current periodicals. Mr. Boardman Conover, Trustee and Research Associate, again presented maps of special interest and importance. Dr. Wilfred H. Osgood, Curator Emeritus of Zoology, and Mr. Karl P. Schmidt, Chief Curator of Zoology, have continued gifts of useful publications.

Mr. Donald Collier, Curator of South American Archaeology and Ethnology, added a rare volume, *Report of the Exploration of the Region of the Rio Colorado*. Dr. Fritz Haas, Curator of Lower Invertebrates, gave a set of Alexander Humboldt's *Kosmos*, and other useful volumes. Dr. Earl E. Sherff, Research Associate in Systematic Botany, as in previous years, added many titles to the botanical resources of the Library. Mr. Emil Liljeblad, former Assistant Curator of Insects, added valuable entomological publications to his gifts of the past two years.

Other donors of books include Carnegie Institution of Washington, Dr. Gregorio Bondar, Mr. Olaf Olsson Nylander, Dr. J. Christian Bay, Miss Celia Elenbogen, Mrs. M. J. Hubeny, North Park College, Pan American Union, Mr. J. R. de la Torre-Bueno, Mrs. F. C. Walch, Dr. José Cuatrecasas, Mr. William H. Corning, and Mr. Henry S. Dybas.

With inter-library loans increasing in importance, the Library acknowledges with gratitude help thus received from many libraries,

among them the Library of Congress, John Crerar Library, and the libraries of the University of Chicago, United States Department of Agriculture, University of Illinois, Missouri Botanical Garden, and Harvard University (the last named including the libraries of Peabody Museum and of the Museum of Comparative Zoology).

The John Crerar Library very generously placed in this institution, on permanent loan, some 200 rare books on malacology, a collection vitally needed by Dr. Fritz Haas, Curator of Lower Invertebrates, for the pursuit of his researches.

Publications and Printing . . .

Owing to war conditions and the resultant effect on shipping, distribution of exchange publications to libraries, museums, and individual scientists during 1942 was confined almost entirely to those within the United States and Canada. These distributions consisted of 4,493 copies of scientific publications, 204 leaflets, and 291 miscellaneous publications and pamphlets. A considerably larger quantity of these papers has been stored with open stock in the Museum, and will be sent to foreign exchanges after the war.

The Museum also sent 3,858 complimentary copies of the *Annual Report of the Director for 1941* to its Members.

Sales during the year totaled 1,445 publications, 5,595 leaflets, and 17,439 miscellaneous pamphlets such as Guides, Handbooks, and Memoirs. Fifty new exchange arrangements with domestic and foreign institutions and scientists were established. For future sales, foreign exchanges, and other distribution, the Museum in 1942 wrapped, labeled, and stored 6,032 copies of scientific publications.

A handbook of color plates representing various exhibits at Field Museum, in which color value was the basis for the selections, was published in 1942. The plates themselves are gifts of Mr. Clarence B. Mitchell, Research Associate in Photography, who devoted time and money generously to producing the color photographs. The booklet is entitled *Exploring Field Museum*.

Early in 1942 the Museum discontinued use of the collotype process for post card reproductions. Halftones are now being used for new cards. Of the 87,409 picture post cards sold during the year, 13,391 were grouped in 576 sets relating to specific subjects.

The year's production of the Division of Printing included ten new numbers in the Museum's regular publication series, some for

each Department. These comprised 1,098 pages of type composition. The aggregate numbers of copies of these printed by Field Museum Press was 13,319. Two leaflets were issued, both on anthropological subjects. The number of pages in these was 158, and the copies totaled 5,622. A twenty-second edition and a reprint of the General Guide, each consisting of 56 pages and nine illustrations, were issued, the two printings totaling 15,388 copies; also printed was an eleventh edition of the Handbook of Field Museum, containing 78 pages (3,631 copies). The special handbook, *Exploring Field Museum*, consisting of 88 pages and 43 colored plates, was published in an edition of 4,600 copies. The total number of pages printed in all books was 1,534, and the total number of copies issued was 42,560.

Miscellaneous job work consumed a large part of the time in the Division. Of major importance was the printing of eleven issues of *Field Museum News* (eight pages each except the December number, which was twelve pages), with an average of 5,200 copies per issue. Exhibition labels printed for all Departments of the Museum during the year reached a total of 3,522. Other printing, including Museum stationery, posters, lecture schedules, post cards, and Museum Stories, brought the total number of impressions for the year to 963,661.

The latest model of type-casting machine was purchased and installed in the Museum's Division of Printing. The new caster, together with similar equipment already in service, was housed in a room especially designed for the purpose. This addition gives Field Museum Press a complete type-casting plant.

A detailed list of publications issued during the year is as follows:

PUBLICATION SERIES

- 513.—Anthropological Series, Vol. 33, No. 2. Kinship System of the Seminole. By Alexander Spoehr. February 19, 1942. 86 pages, 10 text figures. Edition 659.
- 514.—Zoological Series, Vol. XIII, Part I, No. 1. Catalogue of Birds of the Americas. By Charles E. Hellmayr and Boardman Conover. April 30, 1942. 636 pages. Edition 809.
- 515.—Report Series, Vol. 12, No. 3. Annual Report of the Director for the Year 1941. January, 1942. 156 pages, 10 plates. Edition 5,732.
- 516.—Botanical Series, Vol. 22, No. 8. New Species of Croton from Guatemala. By Leon Croizat. June 15, 1942. 12 pages. Edition 854.
- 517.—Botanical Series, Vol. 22, No. 9. New Palms of Bahia. By Gregorio Bondar. June 15, 1942. 10 pages. Edition 858.
- 518.—Botanical Series, Vol. 20, No. 5. The Filamentous Myxophyceae of Jamaica. By Francis Drouet. June 15, 1942. 18 pages. Edition 846.

- 519.—Botanical Series, Vol. 20, No. 6. Studies in Myxophyceae. I. By Francis Drouet. June 15, 1942. 20 pages, 3 plates. Edition 964.
- 520.—Geological Series, Vol. 8, No. 10. Preliminary Description of Two Lower Miocene Carnivores. By Elmer S. Riggs. June 25, 1942. 4 pages, 2 text figures. Edition 850.
- 521.—Botanical Series, Vol. 22, No. 10. Hawaiian Pittospora. Some Mexican Coreopsidae. A Note on *Xylosma Hawaiiense* Seem. By Earl Edward Sherff. November 16, 1942. 116 pages. Edition 923.
- 522.—Zoological Series, Vol. XXII, No. 9. Notes on a Collection of Birds from Michoacan, Mexico. By Emmet R. Blake and Harold C. Hanson. November 23, 1942. 40 pages, 4 plates, 2 text figures. Edition 824.

LEAFLET SERIES

- Anthropology, No. 25. The Civilization of the Mayas (fourth edition). By J. Eric Thompson. 106 pages, 14 plates, 11 text figures, 1 map, 1 cover design. May, 1942. Edition 1,549.
- Anthropology, No. 30. The Races of Mankind. Sculptures by Malvina Hoffman (fourth edition). By Henry Field, with a preface by Berthold Laufer, and an introduction by Sir Arthur Keith. 52 pages, 9 plates. June, 1942. Edition 4,073.

HANDBOOK SERIES

- Handbook. General information concerning the Museum, its history, building, exhibits, expeditions, and activities. Eleventh edition. March, 1942. 78 pages, 8 plates. Edition 3,631.
- Exploring Field Museum. 1942. 88 pages, 43 colored plates of exhibits in the Museum, with brief descriptive text opposite each. Edition 4,600.

GUIDE SERIES

- General Guide to Field Museum of Natural History Exhibits. Twenty-second edition. 1942. 56 pages, 6 plates, 3 floor plans. Edition 12,278.
- General Guide to Field Museum of Natural History Exhibits. Twenty-second edition. 1942. (Reprint.) 56 pages, 6 plates, 3 floor plans. Edition 3,110.

Photography and Illustration . . .

The production of the Division of Photography for 1942 totaled 12,458 items, including negatives, prints, bromide enlargements, lantern slides, and transparencies. These include both the requirements of the Museum itself, and the items prepared for other institutions, for the press, for book publishers, and for the public in general. The project of classifying, indexing, numbering, captioning and filing the collection of more than 100,000 negatives was continued.

The Museum's Staff Illustrator, Mr. John J. Janecek, completed orders for 815 items of art work. These included 372 scientific drawings, 40 maps, 18 diagrams and charts, linoleum plates for the printing of three-color posters, layouts, and various retouching

jobs. He also painted surface and interior features on a large plaster bas-relief of the earth, and made a number of photo-micrographs of geological and zoological subjects.

The principal work of Staff Artist Arthur G. Rueckert is reported upon in the descriptions of habitat group installations in this Report under Department of Zoology—Installations and Rearrangements (p. 63). Mr. Rueckert also worked upon large murals for the Hall of Plant Life in the Department of Botany, and assisted and advised all Departments on various art problems.

The Book Shop . . .

Sales of the Field Museum Book Shop again increased in 1942 above those of any year since its establishment in 1938, attesting a notably successful operation when it is considered that decreased Museum attendance cut down the number of potential purchasers, and that various factors tended to increase management costs. In addition to over-the-counter sales, the Book Shop handled a good volume of mail orders resulting from advertising carried in *Field Museum News*. Stocks of books, and of other articles such as book-ends, paperweights, and models of animals were maintained on a scale to meet all demands. One of the factors believed responsible for the success of the Book Shop is the fact that public confidence has been established in the authenticity of the scientific books it sells, inasmuch as all are required to pass tests for approval by members of the Museum's scientific staff before they may be offered for sale.

Art Classes . . .

Both child and adult students from the School of the Art Institute of Chicago continued to use Field Museum exhibits as material for studies in certain of their classes, an arrangement that has been encouraged by both institutions for years past. Material in the exhibits of this museum was of value for studies in composition, research, drawing, painting, pattern design, sketching, modeling, and the history of art. Especially rich as inspirational material are the Department of Anthropology's collections illustrating the arts of ancient peoples and also of modern primitives. The art school's Saturday Junior Department found the Museum particularly helpful to instructors with large classes of children, and attendance at Field Museum is a regular curricular feature.

Special Project for the Blind . . .

During several months in the past year, Field Museum's collections, especially in the Department of Anthropology, have been made available for special work with the congenitally blind. The activity has been conducted by Mr. Donald Hesson, a blind attorney-at-law whose avocation is aiding others who are sightless, and Mrs. Hesson (Marie Seton), a former British journalist who became interested some years ago in the problems of the blind from a social service standpoint. For the work at Field Museum a room was assigned to Mr. and Mrs. Hesson, and a group of twelve blind persons ranging in age from 16 to 42 was in attendance. The latter acted as subjects in preliminary experiments, conducted twice a week, to obtain records of their reactions in handling selected material. The data obtained will be used in an attempt to evaluate the extent to which the tactual sense can be trained to substitute for sight.

Cafeteria . . .

The decline in general Museum attendance was reflected in the business of the Cafeteria, the number of persons served with meals dropping to 95,002 as compared with 100,740 in 1941. There was, however, an increase in the number using the rooms provided for those who bring lunches, with 81,184 taking advantage of these facilities as compared with 76,342 in 1941. This compensated in part for sales decrease in the main Cafeteria, inasmuch as the management operates a special lunch counter vending edibles and soft drinks to supplement the box lunches brought by children and other patrons.

Maintenance and Construction . . .

Within the limitations imposed by war priorities and the problems of personnel losses, maintenance of the Museum building continued on as nearly normal a scale as possible. The General Superintendent and the Chief Engineer deserve much credit for their accomplishments in the face of adverse conditions. Only a few of the many tasks performed can be mentioned in the limited space available.

The fire fighting apparatus was again increased. The hand rails on the north entrance steps, and on the inside stairway to Hall N,

were repaired. New shades were made and installed at the entrance to the James Simpson Theatre, and in the Director's and President's offices. The service section of the lunch room was enlarged, new counters were installed, the room was redecorated, tables and benches were refinished, and some new ones added.

The reconditioning of the main roof skylight was completed late in the fall. All old glass remaining was scoured clean, which greatly improved the lighting of Stanley Field Hall.

Considerable tuckpointing was done, and repairs to masonry were made on the north and south steps, the flagpole bases, and the walls of the photographer's studio and various other rooms on the third floor. The terra cotta walls that screen the steel smokestack were caulked, and a reinforced concrete hanger beam was replaced under one wall.

Sashes of 108 windows on the third floor were overhauled. Sills, pulley stiles, parting beads, sash and weatherstrips were replaced wherever necessary. A steeplejack was employed to clean and paint the flagpoles. A portion of the roof above Hall 6 was re-covered. The drapes in the Theatre were repaired and cleaned, and 85 square yards of carpet were replaced.

The lumber and lumber storage racks were removed to the south stair area to make space for a projected hall for whale exhibits. A large fresh-air duct was cut, and the entrance to the Harris Extension's ground floor storage room was changed in connection with this undertaking.

A tile partition in the ground floor press room was removed to take out the abandoned rotogravure press, which was sold for scrap iron. The room was remodeled and equipped for use as a mono-type room.

Work was begun on re-locating the children's cloak room on the ground floor, in connection with plans for installing a new fresh-water fish exhibit.

A great deal of washing, painting, and cleaning was done, including the walls and ceiling of the James Simpson Theatre, portions of eight exhibition halls, the main stairway walls on first and second floors, the "vistas" on each side of Stanley Field Hall, Hall C, a number of corridors, and the lower walls of the Cafeteria. Various offices also were redecorated, as were the libraries of the Departments of Anthropology and Zoology. The Knight murals of prehistoric animals in Ernest R. Graham Hall (Hall 38) were washed and restarched.

Construction, begun late in 1941, of three zoology work rooms on the fourth floor, was completed. Rooms 73 and 75 were remodeled into three smaller offices for the curators.

Twenty-four new exhibition cases were built, and five cases remodeled during the year.

All four boilers of the Museum's heating plant were thoroughly cleaned, and necessary repairs made to the settings and linings. Boiler tubes were turbed and tested, and it was found necessary to replace all but the lower row of tubes in one boiler. The coal conveyor was overhauled, and 50 buckets were replaced. A new ash pack elbow was installed in the ash conveyor. All pumps were repacked, and the motors and pumps were painted.

New lighting was installed in various third and fourth floor rooms, and water, exhaust, air, gas, and drainage facilities provided, as required by installations of power machinery used in several divisions. An electric oven was constructed for the Department of Zoology for drying insects in Room 89. Additional lighting was provided in other parts of the building, a total of thirty fluorescent units being used. Twenty-one new exhibition cases were wired for use in various halls.

Under contracts in force for a number of years, 11,605,737 pounds of steam were furnished to the John G. Shedd Aquarium, 4,068,768 to Soldier Field, and 11,845,877 to the Administration Building of the Chicago Park District.

Department of Anthropology

Expeditions and Research . . .

Dr. Paul S. Martin, Chief Curator of Anthropology, completed his analysis of the material obtained by the Archaeological Expedition to the Southwest in 1941 at the SU Site. His detailed report is being published by Field Museum Press. Briefly stated, his analysis leads to the following hypotheses:

The SU Site, a Mogollon village (near Reserve, New Mexico), was probably in existence prior to A.D. 500 and was the only town of the Pine Lawn Phase in the vicinity. The economy of the SU people consisted mainly of seed-gathering, with little farming or hunting. The culture as a whole was simple as regards the development of material things. Psychologically it was timid, conservative, inflexible, rather stagnant, homogeneous, and fairly stable, though



A CHINESE HORSE SHOW OF ABOUT 350 B.C.

Mortuary figurines made of pottery, showing the costume and hairdress of Chinese women some twenty-three centuries ago. These pieces are believed to have come from a tomb in Hui hsien, northern Honan Province. The horse is 23 $\frac{1}{4}$ inches high.

Stanley Field Hall

not so stable as the earlier Cochise stages. New ideas—i.e. pottery and houses—had drifted into the ken of the SU people, and had upset certain phases of their life.

The stone industry had a long tradition back of it with roots going back into the earliest Cochise stages. Pottery was probably a comparatively new trait and had not been with the SU people long enough to permit a favorite type to develop. Although there were three types, a choice among them had not become crystallized.

House-building may have been a fairly new development to the SU people. Certainly they had not built houses long enough to have developed any "art form." That is, the houses had not become standardized in any way as to shape, depth, entry-way, roof, construction, size, location and depths of pits. Each house differed from the next one. No crystallized house-type, like that of the early Anasazi sites, was found.

Nothing is known about the ritual life of the SU people. The Pine Lawn Phase, as represented at the SU Site, probably stands near the beginning of the Mogollon culture, which is probably a separate entity, and not likely a peripheral variant of other south-western cultures.

Dr. Martin, Mr. George Quimby, Jr., Assistant Curator of North American Archaeology, and Mr. Donald Collier, Curator of South American Ethnology and Archaeology, have been working on a revision of the handbook *Archaeology of North America*. This revision is badly needed in view of the great amount of new data accumulated since the handbook was published in 1933.

Dr. Wilfrid D. Hambly, Curator of African Ethnology, has continued his research in craniometry. Field Museum has a large representative collection of about 450 skulls of the adult inhabitants of various Melanesian islands. The first publication, in 1940, dealt with a collection of 200 skulls from New Guinea. During 1942 a report dealing with the skulls from the Island of Ambrym was completed, apparently the first publication on cranial material from this island. Research was continued on a collection of thirty male and fifteen female skulls from the Island of Malekula, an island also relatively little known as concerns cranial deformation.

General observation of morphological characters has for a long time shown that in the geographical area known as Melanesia there exist three physical types—the Negroid, Australoid, and Polynesian—with various degrees of intermixture. The only way to give definite quantitative values to the somatic differences is to record numerous cranial measurements on the longest series available,

and to test the significance of these differences by statistical methods. When compared in this way, crania from New Guinea reveal their resemblance to Negro skulls from Africa. In other words, the New Guineans studied are Negroid Melanesians. When the skulls from Ambrym are compared anthropometrically with skulls of Australian natives, they show definite Australoid characteristics, especially in the development of a heavy brow ridge, which is lacking in the skulls of African Negroes and in those of New Guinean Melanesians. Comparative material from other sources indicates that skulls from the Loyalty Islands (Melanesia) have a height, breadth, and cranial capacity compatible with those traits in Polynesian crania. The publication of a comprehensive work on Melanesian skulls will be possible when the research on the Field Museum collection has been completed.

During the past year Dr. A. A. Dahlberg, Research Associate in Paleontology, Department of Geology, assisted by Mrs. Dahlberg, has conducted studies on human dentition, thus far confined principally to the Museum's very excellent Melanesian skeletal material. The studies, morphological and biometric, follow three courses:

(1) *A study of the arrangement and relations of the cusps on the chewing surfaces of the molars.* This relationship of cusps refers back to the five main cusps and the "Y" pattern they form in the molars of the fossil ape, *Dryopithecus*. The dryopithecoid pattern, as Dr. William K. Gregory of the American Museum of Natural History names it, is found on the first molars of about 85 per cent of Whites, and is present in 92 per cent of the Melanesian Negroes of Field Museum's collection. In *Dryopithecus*, living anthropoids, and in many of the jaws of early man, this five-cusped "Y" pattern exists in the first, second, and third molars.

In modern man, evolutionary processes have operated to reduce the cusp number to four instead of five in most of the second and third molars, and to vary the "Y" pattern to a "+" pattern even where five cusps are retained, as is true in 64 per cent of Melanesian specimens studied. In the White race only about 35 per cent of the third molars retain the five cusps. From charts showing the percentage distributions of the various cusp patterns in all the teeth, it has been concluded that the Melanesian dentition is more primitive than that of other modern races.

Studies of the patterns of the upper teeth were also made, resulting in a similar conclusion. It should be remembered, however, that primitiveness of dentition is not necessarily correlated with primitiveness or progressiveness of other traits or characters.

(2) *Statistical studies and calculations of the measurements of the individual teeth.* Measurements were made and recorded on more than 8,000 teeth in Melanesian and Polynesian skulls for the purpose of comparing island and racial groupings mathematically. The lower first molar was found to be the least variable both in size and form in the entire dentition, and the upper third molar is the most variable. The Melanesian lower first molar has a high index, as is true of the human race generally today, higher than that of Neanderthal, Piltdown, and other early men. A higher crown index refers to shorter teeth, i.e., shortened length as compared to breadth. The shortened teeth as we see them in the present day jaws are in conformity with the shortening of the jaws in the evolution of man.

(3) *Study of anomalies of the human teeth, such as extra teeth, extra cusps, malformations, and teeth that are absent congenitally.* One lower jaw found in the Museum's Melanesian collection has a particular extra cusp located on both the permanent lower first molars. This cusp is of special significance in that it upsets the theories relating to the status of the first permanent molar in the human dentition as expounded by the late Professor Bolk of Amsterdam. Although his theories on dentition were based on the very questionable practice of designating certain occasionally present supernumerary or extra teeth and extra cusps as reversions fitting into his conception of the ancestral pattern of dentition, his eminence as an anatomist, and the fact that he had examined 20,000 first molars without finding this anomaly makes ours an important record. Bolk's theories on these points are no longer plausible because they revolve about his contention that the first permanent molar is really the third milk molar, to which it was impossible to add what he and de Terra before him called the "paramolar cusp or tubercle."

The data compiled during the past year are still being worked over, and it is hoped that the dentitions of all the races represented in the Museum's large skeletal collection may be included in the projected study.

Mr. Donald Collier, Curator of South American Archaeology and Ethnology, headed an archaeological expedition to Ecuador during the period from September, 1941, to February, 1942. The expedition was one of ten anthropological research projects in Latin America sent out by the Institute of Andean Research, under the sponsorship of the Coordinator of Inter-American Affairs. Mr. Collier was accompanied by Mr. John V. Murra, of the University

of Chicago. Señor Aníbal Buitrón Chaves, of Quito, served as field assistant.

The expedition carried out an archaeological reconnaissance in the little-known highland provinces of southern Ecuador. The survey extended from Riobamba, in central Ecuador, southward to Loja, a distance of approximately 180 miles, and covered territory ranging in altitude from 2,500 to 14,000 feet. The expedition traveled by plane, by automobile, on mule back, and afoot.

On the basis of the information gained by the survey, the Cañar Valley was chosen as the most fruitful place to excavate. Intensive digging was carried out at Cerro Narrio, a large hill containing burials, remnants of houses, and large refuse deposits left by the prehistoric Indian inhabitants. Other smaller sites in the valley were also investigated.

The work at Cañar established a stratigraphic cultural sequence for the valley which makes it possible to reconstruct the local history. Between A.D. 1000 and 1200 the Cañari Indians settled in the valley. They were an agricultural people who made very fine pottery and lived in houses constructed of upright poles and mud, roofed with grass thatch. During the early years of their occupation of the valley, they apparently made little use of metal, but later they made copper axes and elaborate gold ornaments. About A.D. 1400 the Cañaris were strongly influenced by the Puruha Indians, who lived in the mountains to the north, and about fifty years later the Cañaris were conquered by the Incas, who succeeded in adding most of Ecuador to their empire.

While in the field, the expedition collected a large number of potsherds, pottery vessels, and tools and ornaments of bone, stone, shell, and metal. Through the courtesy and co-operation of the National Academy of History in Quito and the Ecuadorean government, it was possible to bring this collection to Field Museum. It is an important addition to the Museum's materials from Ecuador.

Mr. Collier and Mr. Murra have prepared a report on the results of their work in Ecuador, to be published by Field Museum. The Institute of Andean Research has generously contributed to the cost of this publication.

Installations and Rearrangements—Anthropology . . .

The preparation of Section 1 of Hall B (New World Archaeology), begun in 1941, has required constant research on the part of Dr. Martin, Dr. Alexander Spoehr, Curator of North American Eth-

nology, Mrs. Spoehr, Artist, and Curators Collier and Quimby. Exhibits for this hall completed during 1942 are: Pottery, Metals, Where Early Writers Traveled, Foods, Indian Houses and Temples, Indian Writing, Decorative Arts, and the Cliff House Diorama. This section of the hall was nearly ready to be opened to the public at the end of the year.

In order to reinstall a number of cases of Roman and Greek specimens in Edward E. and Emma B. Ayer Hall (Hall 2), Mr. Richard A. Martin, Curator of Near Eastern Archaeology, carried on considerable research. This work enabled him to put more explicit labels on these exhibits and thus greatly enhance their value. Reinstalled were eleven cases of silver, bronze, glassware, and pottery. Each has been furnished with interior fluorescent lighting which improves the visibility and beauty of the exhibits.

Dr. C. Martin Wilbur, Curator of Chinese Archaeology and Ethnology, conducted research on Chinese prehistory in connection with the reinstallation of the Old and New Stone Age exhibits in the Hall of Chinese Archaeology (George T. and Frances Gaylord Smith Hall, Hall 24). He also prepared an exhibit of Chinese ivory carvings and snuff bottles in Stanley Field Hall. The use of a soft, green background proved effective as a foil for all shades of the ivories and the bright, jewel-like snuff bottles.

Department of Botany

Expeditions and Research . . .

Preparations for a joint Field Museum-Venezuelan Government Botanical Expedition to the upper Orinoco were announced in 1941, and the beginning of 1942 saw Mr. Llewelyn Williams, Curator of Economic Botany, on his way, with equipment, overland from Caracas to Ciudad Bolívar where the first stage of his Orinoco River trip was begun. The limit of steamer navigation, Puerto Ayacucho, was reached January 17. At this place river transportation is interrupted by cataracts and is resumed only forty miles to the south, at Sanariapo, reached by road along the right bank of the river. Above this point the Orinoco is navigable only by shallow water craft and Mr. Williams with his small party of aids traveled by launch and large dugout canoe southwards to San Fernando, then by the Rio Atabapo and its branch, the Temi, to Yavita, where a narrow strip of land separates the basin of the

Orinoco from that of the Rio Guainía, an affluent of the Brazilian Rio Negro. The traverse of ten miles between Yavita and Pimichin, the nearest point on the Guainía, is made by a road maintained in passable condition for more than a century by the two villages whose inhabitants furnish porters for the small amount of traffic passing in both directions. The journey was continued southwards on the Guainía and Rio Negro to the Brazilian boundary, marked by the well-known and conspicuous rocks of Cucuy. The return trip to Puerto Ayacucho was made by the same route reversed. Collections were made during numerous stops and were transported to Puerto Ayacucho on the way back.

After attention to the material gathered, and provision for its storage or forwarding, Mr. Williams proceeded southward a second time from Ayacucho to San Fernando de Atabapo, but from this point followed the Rio Orinoco eastward and southward past the junction with the Casiquiare to Esmeralda, whence is visible the peak of Mount Duida, the isolated, botanically famous mountain of Venezuelan Guiana. On the return trip excursions were made to the lower Casiquiare, the Ventuari, and later on Río Sipapo.

Inasmuch as the route of the expedition followed and overlapped in many places that of famous botanical travelers whose work a century ago and whose collections, now in Europe, still form the basis of our knowledge of the flora of the region, the material obtained by Mr. Williams will be of particular interest to American herbaria. Parts of the collections are now on the way to the Museum, and the remainder has been divided into parcels for forwarding as opportunities may offer for relatively safe transportation, or for storage in Caracas until re-establishment of normal conditions.

The Museum's Fourth Botanical Expedition to Guatemala, to obtain additional and final material for a descriptive account of the vegetation of that country, now well advanced, was in the field almost a year. It was led by Dr. Julian A. Steyermark, Assistant Curator of the Herbarium, who was accompanied by Mr. Albert Vatter, Jr., of Glenview, Illinois, volunteer assistant and photographer. The party sailed from New Orleans December 3, 1941, arriving at Puerto Barrios December 7, and returned by railroad across Mexico, reaching Laredo, Texas, November 9, 1942. The field work resulted in a collection of 30,000 herbarium specimens of 11,000 numbered collections, more than 100 wood specimens, and about 1,000 photographs.

The expedition was highly successful in reaching regions previously almost or quite unknown to botanists. There were collected



LIVE OAK, FLORIDA

Mural painting by Staff Artist Arthur G. Rueckert
Martin A. and Carrie Ryerson Hall (Hall 29)



scores of plants unrecorded from Guatemala, including many species undoubtedly new to science.

The first weeks were given to exploration of Cerro San Gil, loftiest mountain near the Atlantic coast of Guatemala, with a height of 4,000 feet, clothed throughout with virgin rain forest, except for a patch of cloud forest on the craggy summit.

A month and a half were devoted to work in the upper portions of the Sierra de las Minas in northeastern Guatemala, whose summits, at 9,000 to 10,000 feet, are covered with beautiful cloud forest, having a rich and diversified flora. The period from February to the end of March was spent in the northern half of the Department of Alta Verapaz, a limestone region with much virgin forest. This limestone area is particularly rich in palms, begonias, and orchids.

The latter part of March and early April were spent in gathering plants in the region of southern Petén north of Cerro Chinajá, in which no botanical collections had been made previously. Cerro Chinajá, where collecting was carried on at an elevation of 2,000 feet, is the last high land before dropping down to the relatively level plains of Petén. To its south in Alta Verapaz is an enclosed savanna which yielded many grassland plants unknown otherwise south of central Petén.

A dugout canoe was used to explore this part of Petén, and a month was spent along the rivers Cancuén and Pasión, and their tributaries. The expedition penetrated northward to the village of Sayaxché in central Petén. The flora was disappointing as to number of species, although not unexpectedly so, in view of the meager flora reported heretofore from central and northern Petén.

Extensive collections of plants were made on the several high volcanoes about Lake Atitlán, heretofore almost unknown botanically. The southern slopes, now largely devoted to production of coffee, and to some extent to cinchona plantations, are naturally rich, as are other sections of the Pacific foothills.

The last two months of field work were applied to intensive exploration of the Department of Huehuetenango, a non-volcanic region in northwestern Guatemala, few parts of which had been seen by any botanist. Here about 1,000 miles were covered, chiefly on foot over mountain trails. The department consists in large part of the Sierra de los Cuchumatanes, a high plateau of wide extent, with an elevation of 10,000 to 11,000 feet, where wide areas are covered with truly alpine plants, in appearance not unlike similar areas of the Rockies in the United States.

This whole area afforded many additions to the previous list of Guatemalan plants, with numerous Mexican genera and species otherwise unknown in Central America. One of the least expected was the Virginia creeper. The lower slopes of the Huehuetenango mountains possess a rich orchid flora. In places there were thousands of blooming plants of the yellow Mexican lady's-slipper (*Cypripedium irapeanum*), previously believed to be rare and local in Guatemala.

The work of the expedition was highly successful and fortunate in every respect. Much of its success was the result of generous co-operation on the part of Guatemalan officials, who contributed wholeheartedly and often in the most material ways to its execution. This assistance was due in very large part to the cordial interest of Don Mariano Pacheco Herrarte, Director General de Agricultura, the kind friend and advisor of all botanists who visit Guatemala.

The four botanical expeditions that Field Museum has dispatched to Guatemala, from 1938 to 1942, have reached almost all parts of the country, and have undoubtedly collected the vast majority of the very numerous species of plants existing in the country. These, with earlier collections made by other botanists, afford a more complete representation of the flora than has been gathered for any other region of Central America. Nevertheless, further botanical work in Guatemala will doubtless reveal additional plants.

Early in the year Dr. B. E. Dahlgren, Chief Curator of Botany, made a brief excursion to Cuba which resulted in some desirable additions to the palm herbarium and the economic collections.

Publications of the Department issued during the year by Field Museum Press are listed on page 39. In addition to these, Mr. Paul C. Standley, Curator of the Herbarium, published in various serials several brief notes and descriptions of new plants from tropical America; and Assistant Curator Steyermark published a number of short papers dealing with plants of the United States.

Mr. J. Francis Macbride, Associate Curator of the Herbarium, completed the manuscript for his account of the Leguminosae for the *Flora of Peru*. Much of the time of Curator Standley was devoted to work on a *Flora of Guatemala*. Manuscript for the second part of the *Index of American Palms* (Botanical Series, Volume XIV, No. 2) was prepared by Chief Curator Dahlgren.

Identification of specimens of algae coming from workers in various parts of North and South America, and those resulting from expeditions by members of the staff of Field Museum, was continued

in 1942. The specimens in the myxophycean collection of the late Professor N. L. Gardner of the University of California were put in order, determined, and prepared for filing in the Herbarium of the University of California and in the Cryptogamic Herbarium here. Dr. Drouet continued general studies in the genus *Schizothrix*, the families *Chroococcaceae* and *Chamaesiphonaceae*. and the myxophycean flora of western Nevada and eastern California. Mr. Donald Richards, volunteer assistant, pursued his studies in the collection of bryophytes throughout the year. Mr. J. C. Strickland, here on a fellowship from the University of Virginia, began in September a visit of six months to complete his studies of the myxophycean flora of Virginia.

Throughout the year the collections of the Department were consulted by visiting botanists from the Chicago region and from distant parts of the United States, as well as from South America. Many plants were submitted for determination, some of them having economic importance and a direct connection with the prosecution of the war. The visitors included a large number of persons who were seeking new sources for plant raw materials to enlarge current supplies or to replace others available only by importation. For residents of the Chicago region many local plants were named, and hundreds of inquiries regarding diverse aspects of botanical science were answered by interview, telephone, and correspondence.

Installations and Rearrangements—Botany . . .

Few changes or additions were made among the botanical exhibits, but with the installation of a trunk and boards of western alder, one of the few missing items was added to the display of principal American forest trees in Charles F. Millspaugh Hall (Hall 26). New material acquired in Cuba made possible some improvements in the palm exhibits in the same hall. A reproduction of a branch of the cork oak of Algiers and Spain was added to the remarkable cork specimen in the center of the Hall of Foreign Woods (Hall 27), where some other minor additions and changes were made. Botanical exhibits require vigilant care; replacements and new labels were provided as needed.

Work on the series of murals on the west wall of Martin A. and Carrie Ryerson Hall (Hall 29), begun years ago by the late Staff Artist Charles A. Corwin, has been taken up anew by his successor, Mr. Arthur G. Rueckert. As a result, a painting of a live oak tree was added to this barely half finished series depicting characteristic and notable tree forms.

The construction of exhibition cases for three additional habitat groups at the south end of Hall 29 was completed. This will permit the installation of material already prepared for one, and well under way for a second exhibit. Several smaller botanical exhibits are also under way and much planning and preliminary work has been done on others.

During 1942 the Department of Botany received 257 accessions, composed of about 62,307 items, including material for the wood and economic collections and for the exhibits and herbaria. Of these, 16,387 were received as gifts, 14,902 as exchanges, 813 as purchases, and 30,205 were collected by Museum expeditions.

The total of numbered specimens in the herbaria at the end of 1942 was 1,109,513. About 21,000 sheets of specimens and photographs were added to the herbaria during the year, besides several hundred printed or typewritten descriptions of new species of plants. Of the total receipts, specimens for the herbaria amounted to 62,137, consisting of plant specimens and photographs.

The largest gift of the year to the phanerogamic herbarium consisted of 3,036 specimens from the vicinity of Chicago, presented by Professor G. Eifrig, of River Forest, Illinois, and constituting a valuable addition to the Illinois Herbarium. Another large and important gift included 1,027 specimens of Guatemalan plants, presented by José Ignacio Aguilar G., of Finca Nacional La Aurora, Guatemala.

Largest of the exchanges of flowering plants were 2,303 specimens from the Arnold Arboretum, Jamaica Plain, Massachusetts. From the Escuela Superior de Agricultura Tropical, Cali, Colombia, there were received 475 specimens of Colombian plants, largely material of species recently published. The United States National Herbarium, Washington, D.C., forwarded 739 specimens of Central and South American plants, and the University of Washington 578 specimens, chiefly from Washington.

Large amounts of cryptogamic material accrued from Field Museum expeditions. About 18,000 specimens of cryptogams were received from other institutions and individuals. About 8,000 came in exchange and the remainder were gifts, the four largest of which are 2,528 fungi from the Department of Botany, University of Chicago; 1,173 cryptogams of Colorado and Nebraska from Dr. Walter Kiener, of Lincoln, Nebraska; 1,570 miscellaneous cryptogams from Mr. Donald Richards, of Chicago; and 941 myxophyceae from the herbarium of the late Nathaniel Lyon Gardner from the University of California at Berkeley.

Other gifts from many donors are recorded in the List of Accessions (p. 71).

More than 13,000 new specimens were mounted on sheets and distributed in the Cryptogamic Herbarium during 1942. The renovation of the packaging of the lichen collection was completed, and similar work was begun on the collection of fungi. Considerable attention was given to the preparation of duplicate specimens for exchange, of which 8,952 were sent to other herbaria during the year. For the folding of the large number of packets involved, the services of Mrs. Catharine M. Richards, of Chicago, are gratefully acknowledged.

From wood collections acquired by expeditions, purchases, and exchange, thousands of hand specimens were cut for the wood reference collection and for duplicates. The entire stock of hand samples of woods and duplicates for exchange has been thoroughly subjected to heat treatment to stop and prevent threatened damage from wood boring insects.

During the past year about 10,000 prints from the negatives of type specimens obtained in European herbaria by Associate Curator Macbride were supplied at cost or in exchange for similar photographs or type specimens to botanists in North and South America. Requests on hand for such prints amount to almost 50,000.

Department of Geology

Expeditions and Research . . .

An expedition led by Dr. Paul O. McGrew, Assistant Curator of Paleontology, left for Honduras in November, 1941, and continued operations until April, 1942. Its aim was to obtain information bearing on the problem of the date of reconnection of North and South America at the Isthmus of Panama. The isthmus is, geologically speaking, a rather recent addition to the earth's surface. During almost the whole of the Age of Mammals, some sixty million years, the waters of the Caribbean and the Pacific were in free communication, effectively separating the two Americas. The faunas of the two continents evolved in entirely different directions during this time, the South American animals coming to be unlike any that lived elsewhere. Elevation of the isthmus led to a great faunal exchange whereby South America received horses, deer, llamas, mastodonts, carnivores and various kinds of rodents, and

North America was invaded by such creatures as giant ground sloths, glyptodonts, armadillos and porcupines. Accurate dating of the appearance of the isthmus is a matter of great scientific importance, and Field Museum, which possesses extensive collections of both North and South American fossil mammals, is especially interested in it.

Work was carried on by the expedition for some three months in early Pliocene deposits in the Department of Gracias, where a good collection of fossil mammals was obtained. Previous to joining the staff, Dr. McGrew had worked in this region under the auspices of the Geological Society of America and the University of Chicago. On neither occasion was any trace of a southern mammal discovered in these beds, the finds consisting of northern types such as three-toed horses, rhinoceroses, camels and mastodonts. It may safely be assumed, therefore, that the isthmus was not in existence until a somewhat later date, probably toward the end of mid-Pliocene time, some three or four million years ago. This confirms inferences based on the South American fossil record.

In addition to the work in the Pliocene formation, quarrying operations were carried on in a deposit laid down in the latter part of the succeeding Pleistocene epoch. By this time dispersal of animals via the Panamanian land bridge was in full swing, and the excellently preserved material collected includes both northern and southern types. The outstanding specimen is an essentially complete skeleton of the giant ground sloth, *Megatherium*. This is a most welcome addition to the study collections, our only other skeleton of the animal being on exhibition. An interesting record was provided by specimens of toxodonts, large hoofed mammals of South American origin, which had not hitherto been reported this far north. Dr. McGrew was assisted by Mr. Albert A. Potter, of Chadron, Nebraska, and Señor Eliseo Carabantes, of Gracias, Honduras. A summary account of the expedition by Dr. McGrew has been published in *Science*.

Another expedition worked in Utah. For thirty odd years the hall of paleontology (Ernest R. Graham Hall—Hall 38) has contained a gigantic headless skeletal specimen which includes the trunk, hind quarters, and tail of the huge sauropod dinosaur *Apatosaurus*. For an equal length of time there has been a strong desire to complete the exhibit, but attempts to do so, made at various times in the past, for one reason or another have failed. In 1941, Mr. Edward L. Holt, of Grand Junction, Colorado, informed the Museum that he had located a prospect in Utah that might serve the purpose,

and this was examined by Field Museum's 1941 expedition, which rendered a favorable report. Arrangements with Mr. Holt having been made, Mr. James H. Quinn, Chief Preparator, and Mr. Orville Gilpin made a short trip in 1942 for the purpose of collecting the specimen. It consisted of the neck, trunk and a good part of the fore and hind legs which will admirably supplement the partial skeleton on exhibition. The party also investigated an immense deposit of dinosaur bones in the same general region, and obtained a small number of specimens from old collecting localities in Colorado and Nebraska.

Investigations on several research fronts were pushed forward during the year:

The anatomical work carried on in the Division of Anatomy, of the Department of Zoology, on the giant panda and other modern carnivores has thrown some doubt on generally accepted ideas of classification and relationships in the so-called arctoid group—the dogs, bears, pandas, and raccoons, and the weasels and their allies. It has usually been supposed, for example, that the dogs more or less represented the stem stock from which the others diverged. The anatomical studies that have been made thus far suggest, on the contrary, that the dogs are a rather isolated group of the arctoid carnivores.

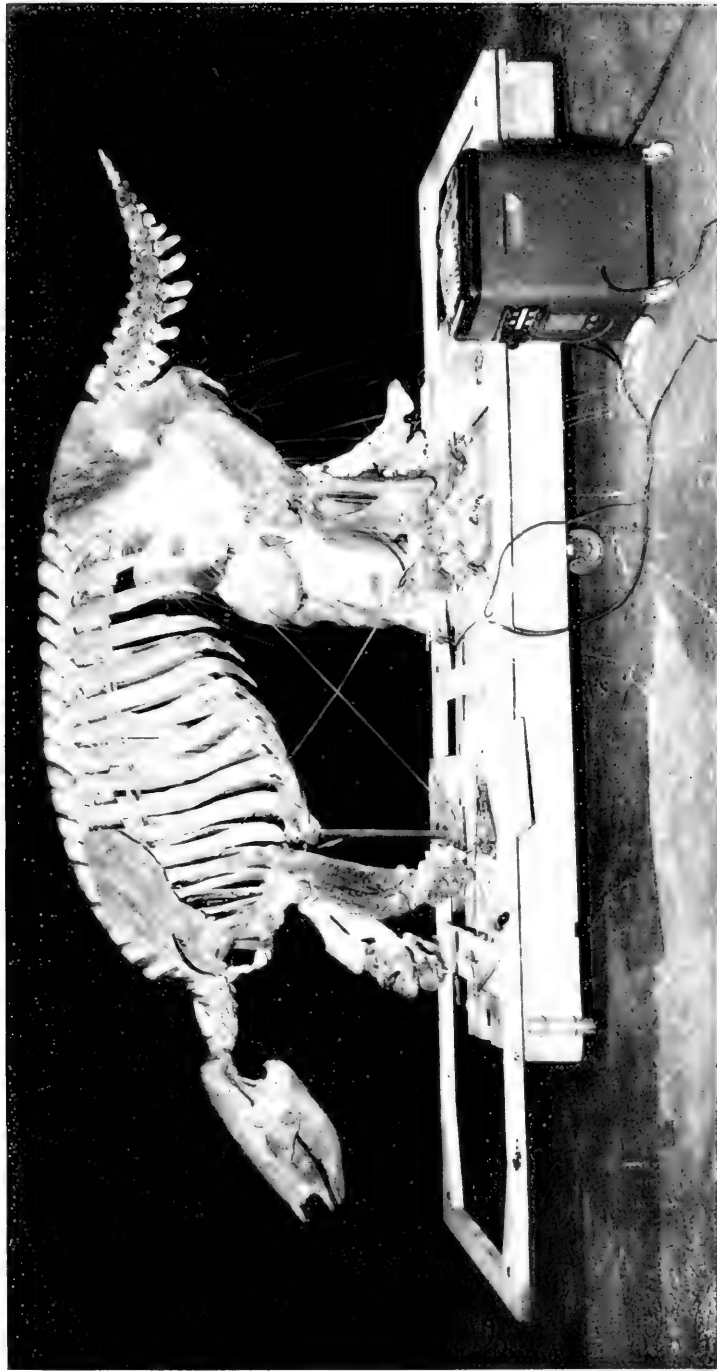
To the breadth of view that is possible from thorough study of living forms it is desirable whenever possible to bring the depth that is paleontology's great contribution to biology. Certain work done in the Division of Paleontology during the year will contribute to the extensive program being carried out in the Division of Anatomy. Mr. Elmer S. Riggs, Curator of Paleontology, prepared a paper on early Miocene arctoids, and a portion of this, describing two new forms, was published in the Geological Series. One of the two novelties is a most interesting form that combined a dentition of weasel type with an ear region typical of the raccoons. Curator Bryan Patterson began investigation of the ear structure of representative early arctoids; preliminary studies indicate that the dogs have had a characteristic pattern since the time of their earliest appearance in the geologic record, a finding in agreement with the results obtained from the anatomical studies of the Department of Zoology.

Progress in working out a chronology of the deposits laid down during the Pleistocene or Ice Age in those parts of North America that were not covered by ice has been slow, particularly in the interior of the continent. Within the last decade, however, notable advances

have been made in our knowledge of vertebrate faunas and stratigraphy of the early part of the epoch, especially by field parties from the University of Nebraska. On their way to and from Colorado, the several Field Museum Paleontological Expeditions to that state have since 1933 obtained material from an early Pleistocene deposit in north-central Nebraska. In the course of time a fair collection of fossil vertebrates has been assembled, the chief importance of which lies in its association with an assemblage of fresh-water mollusks. These have been determined by the late Frank C. Baker, of the University of Illinois, as being characteristic of the first interglacial stage—the Aftonian. The fossil mammals appear to be of the same age as those collected by the University of Nebraska, and the shells provide the evidence necessary to tie both faunas into the sequence that has been worked out in the glaciated areas.

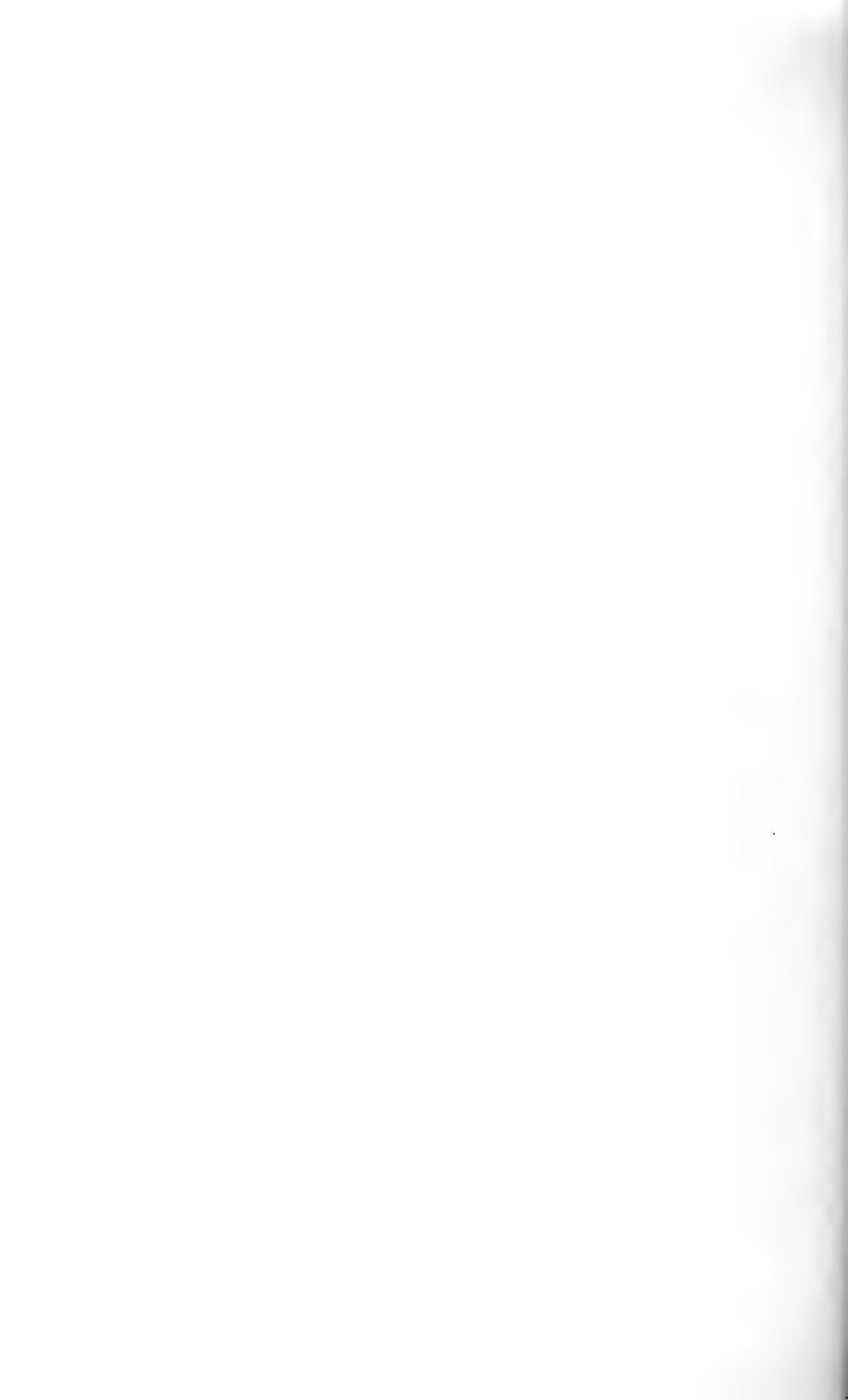
Dr. McGrew has been working on this collection since his return from Honduras. It almost always happens that upon taking up such work the investigator finds that he has to solve one or more related problems before he can complete his original task. This undertaking was no exception. Remains of horses form a large part of the collection, and in order to determine them satisfactorily Dr. McGrew was led into a detailed examination of the late Pliocene, Pleistocene, and Recent representatives of the family. An interesting result of his study is the recognition that zebras roamed the plains of North America in early Pleistocene time.

The South American Tertiary fossil record is a well-documented one and is well represented in Field Museum, thanks to the excellent collections brought together by the Marshall Field Expeditions of 1922–1927. This record is unbalanced, however, in that nearly all the material comes from the southern half of the continent, the great bulk of it from Argentina. Tertiary mammals from this country are numbered by thousands whereas those from northern South America are numbered only by tens. Because of their rarity, these few northern specimens are of surpassing interest. They form priceless records of the former distribution of mammals within the southern continent, indicating that it was in existence as a unit throughout most, if not all, of the Age of Mammals, and are invaluable aids in the correlation of northern rock units with the standard sequence worked out in Argentina. Two of these northern mammals were described by Curator Patterson in a paper published during the year in the *Novitates* of the American Museum of Natural History. One of them was found at the base of a rock series involved in the uplift of the Cordillera Oriental, the eastern portion of the great



WELDING APPLIED IN PALEONTOLOGY

Modern methods employed in Museum laboratories for fastening the iron framework used to support the skeleton of an extinct mammal (*Teloceras*).



Andean chain. Its age and position in the series suggest that the elevation probably began toward the end of mid-Pliocene time, and was therefore essentially contemporaneous and possibly connected with the emergence of the Panamanian isthmus.

Other work carried out by Mr. Patterson on South American vertebrates included studies of the relationships of certain hoofed mammals of Oligocene age, and a discussion of certain fossil crocodiles, which was submitted for publication to *Copeia*, the journal of the American Society of Ichthyologists and Herpetologists.

An increasing number of zoologists are extending their studies to include the extinct ancestors and collateral relatives of the living forms on which they specialize. Mr. Karl P. Schmidt, Chief Curator of Zoology, is among this company. For the past several years he has studied the extinct representatives of the living orders of reptiles, particularly the crocodiles and turtles. During the year he completed a paper on some marine Cretaceous turtles from Arkansas which will clarify the relationships of several hitherto poorly known forms. These and other Arkansas specimens acquired by the Museum in the past were collected by Mr. C. M. Barber of Hot Springs, formerly a member of the Zoology Staff. Rock exposures are few and specimens scarce in this region, but Mr. Barber, by patient and persistent search, has been remarkably successful in a field where Museum expeditions could not profitably operate.

The Staff of the Division of Paleontology was strengthened by the addition during the year of Dr. Albert A. Dahlberg as Research Associate. Dr. Dahlberg is concluding some work in Physical Anthropology, a summary of which appears in another section of this Report, and plans to conduct investigations on the microstructure of the enamel in various mammals. This is a most fruitful field in which the facts obtained have an important bearing on the relationships of major groups. Dr. Dahlberg's work in it will be followed with great interest.

Installations and Rearrangements—Geology . . .

During the past few years there has been a great deal of activity in expanding exhibits and reinstalling older ones. As recounted in previous Reports, Ernest R. Graham Hall (Hall 38) has been changed from a hall of general paleontology to a hall of fossil vertebrates. This affords an excellent opportunity to display the evolution of the various vertebrate groups in a comprehensive manner. Up to the present the efforts have largely been directed toward developing

a satisfactory technique for the treatment of individual cases. This has been achieved by the elimination of shelving, by the use of cut-out letters for captions, by the inclusion of restoration paintings, and by a reduction in the number of specimens exhibited. Three cases of this type were installed during the year: a skeleton of a short-legged, hornless rhinoceros; a series of skulls of titanotheres, and representative specimens of the Oligocene mammalian fauna of the Great Plains region. In addition, a number of previously installed cases received minor alteration, such as the addition of captions and paintings, to bring them into conformity with the new ones.

The problem of the individual case having been satisfactorily solved, there remains the much more difficult task of arranging the various cases and of selecting the materials to be exhibited in them so as to present the history of the vertebrate animals in a logical, connected manner. A plan for the eventual arrangement of the hall was drawn up which will co-ordinate our future work as well as that which has been done thus far. While preparing this plan it became apparent that mere presentation of the evidence of past life, however attractively it may be displayed, is not sufficient. It is necessary to provide also a background for the appreciation of this evidence—in other words, it is essential to show what fossils are, what they reveal, and how they are interpreted. A series of these explanatory cases has been planned for the hall, and the first of them, showing the way in which a representative fossil vertebrate is preserved, found, and collected, was placed on exhibition in December.

Reinstallation of the industrial minerals in Hall 36 continued normally until the middle of August. At that time the departure of Dr. Sharat K. Roy, Curator of Geology, to accept a commission as a Captain in the Army, followed by the enlistment of Preparator Henry Horback, so depleted the Department Staff that there remained, aside from the vertebrate paleontologists, only the Chief Curator, the Department secretary, and one preparator (Assistant Curator Bryant Mather had entered government service the preceding year). However, the work was so far advanced that the Chief Curator and the remaining preparator were able to complete it before the close of the year. The collection now fills half the hall, instead of the whole, as formerly. This reduction is needed to provide space for an adequate display of the invertebrate fossils which have been transferred from Hall 38 to Frederick J. V. Skiff Hall (Hall 37). It was found that the old exhibit, which followed

plans formulated in 1894, contained such a wealth of detail that it confused the ordinary visitor and involved overcrowding the exhibit. It has been replaced by an exhibit which contains fewer specimens and which, by the omission of much confusing detail, illustrates simply and plainly the general features and modes of occurrence of the industrial minerals. By use of the improved methods of display adopted for the vertebrate fossils the exhibit has been made more attractive and interesting. As the new installation differs radically from the old, much time-consuming and tedious reconditioning of the specimens was necessary, but the improvement in the appearance of the collection and the increased interest shown by the public is all that was hoped for, and amply justifies the time spent on it.

One case illustrating strategic and critical minerals and their sources was installed in Stanley Field Hall. Transfer of the study and reserve collections from temporary to permanent storage by Preparator Horback continued until he was called into the Army in September. During the transfer, all specimens were checked against Department records for errors in labeling, doubtful specimens were reidentified, and cards for the classified catalogue were typed.

Department of Zoology

Expeditions and Research . . .

One zoological expedition was still in the field when the United States entered the war. This was conducted by Mr. Colin C. Sanborn, Curator of Mammals, who had been working in southern Peru since July, 1941. He was able to carry out his original plan of visiting important localities in the highlands west of Lake Titicaca, of crossing to the eastern side of the Andes and descending to Santo Domingo on the upper drainage of the Rio Madre de Dios, and of making brief stops on the coast near Arequipa and near Lima. He returned to the United States by air in April, 1942, leaving part of his collections stored in Lima. Later these were successfully shipped through the submarine zone and reached the Museum in good order. Totaling some 1,800 specimens and including mammals, birds, reptiles and fishes, these are awaiting classification and study.

The Department of Zoology also received small collections of mammals, birds, and reptiles from the Museum's paleontological expedition to Honduras, and the botanical expedition to Guatemala.

Mr. José Steinbach, of Cochabamba, Bolivia, who was commissioned by the Museum to make a brief trip to Mount Sajama, Bolivia, carried it out successfully, and his specimens of mammals and birds, numbering several hundred, although delayed in transit, were finally received in good condition.

Research has continued mainly along lines previously laid down. Dr. Wilfred H. Osgood, Curator Emeritus, has proceeded with studies of South American mammals and has completed a work on the mammals of Chile for publication in the near future. Mr. Clifford H. Pope, Curator of Amphibians and Reptiles, has been engaged in the preparation of a handbook of local herpetology, and is also co-operating with the Illinois State Natural History Survey in studies preparatory to the production of a popular guide to the reptiles and amphibians of Illinois.

Mr. D. Dwight Davis, Curator of Anatomy and Osteology, devoted his time to study of the morphology of the arctoid (bear-like) carnivores in connection with the special monograph which he is preparing on the giant panda. An important paper on the carotid circulation in the domestic cat was finished for publication and has gone to press. Other anatomical studies have been made by Miss H. Elizabeth Story, of the Staff, and by Dr. Harry Sicher and Dr. Walter Segall, volunteer assistants. Mr. Emmet R. Blake, Assistant Curator of Birds, in collaboration with Mr. Harold C. Hanson, completed a report on a collection of birds from the State of Michoacan, Mexico, and the report was published by Field Museum Press. Mr. Rupert L. Wenzel, Assistant Curator of Insects, continued studies of the beetles of the family Histeridae. Mr. Loren P. Woods, Assistant Curator of Fishes, worked on the fishes of the eastern Pacific, especially those of the Galapagos Islands and of other waters bordering on South America. It is to be noted that much of the research is directed to South and Central America. This is primarily due to the growing importance of the Museum's collections from these regions as the cumulative result of numerous past expeditions.

The most important publication of the year was a further installment of the *Birds of the Americas*. It is the joint production of Dr. C. E. Hellmayr, Associate Curator of Birds, and Mr. Boardman Conover, Research Associate in Ornithology, and covers sixteen families of large birds, mainly game species. Manuscript for the succeeding number to finish the series has been prepared by Dr. Hellmayr, who is now resident in Switzerland, but war conditions make its early publication doubtful.

Installations and Rearrangements—Zoology . . .

Preparation and installation of new exhibits have not been delayed. An exhibit of the mammals of Illinois was prepared by Staff Taxidermist W. E. Eigsti, and installed in four wall cases at the north end of George M. Pullman Hall (Hall 13). All species known to occur in the state are shown, each with a groundwork or accessory indicating its habits. Additions to the systematic series of mammals in Pullman Hall and Hall 15 include an Isabelline gazelle, a Thompson's gazelle, a llama, and an alpaca, all prepared by Staff Taxidermist Julius Friesser. Others for this series are prepared and awaiting installation.

Two new bird groups were added in Hall 20, both in the section assigned to European species, which is thus completed. The first shows the shore bird of which the male is known as the ruff and the female as the reeve. A bevy of these birds, engaged in their remarkable nuptial activities, is represented in a green meadow fronting a characteristic Dutch landscape. The second new group shows the eagle owl, a large species characteristic of the coniferous forests of northern Europe and Asia, being mobbed by smaller birds. These groups represent the joint efforts of Staff Taxidermist John W. Moyer, Staff Artist Arthur G. Rueckert, Preparator Frank H. Letl, and Assistant Taxidermist Frank C. Wonder.

An exhibit of the poisonous snakes of the United States, with large colored maps illustrating their distribution, was added to Albert W. Harris Hall (Hall 18). This exhibit and its maps were designed by Miss Clarice McKeever, volunteer artist.

A notable addition to the Hall of Fishes (Hall O) was a habitat group showing the fish life along the shores of the Galapagos Islands. This shows a large number of colorful sea denizens in an unusually faithful reproduction of their environment, and it is thus indicative of their habits. Its high degree of accuracy and wealth of detail were made possible by the Leon Mandel Galapagos Expedition in 1941, on which both scientific staff and preparators were represented. The group was prepared by Staff Taxidermist Leon L. Pray, Artist Rueckert, Preparator Letl, and Assistant Taxidermist Wonder, with the assistance and advice of various other members of the staff.

A further addition to Hall O is a large manta ray or devilfish, also obtained by the Mandel Expedition. This has been reproduced in "celluloid" with a very lifelike effect, by Staff Taxidermist Leon L. Walters.

An outstanding addition to the Hall of Anatomy and Osteology (Hall 19) is the "Animal Reproduction" series, which was completed during the year. A series of five units, arranged to form an alcove, traces the story of reproduction from the simple asexual type found in such animals as the amoeba up to the complex reproductive process in man and other mammals. Models, life-sized or enlarged, illustrate many details and are supplemented by transparencies, photographs, and diagrams. The models are the work of Artist-Preparators Joseph Krstolich and Nellie B. Starkson. The nucleus of the exhibit, gift of the late Charles H. Schweppe, is a series of life-sized models to illustrate the process of development and birth in man. These were prepared at the New York Maternity Center by the sculptor Abram Belskie, under the direction of Dr. Robert L. Dickinson. Miss Malvina Hoffman served as consultant, and contributed a marble sculpture of a three-weeks-old baby to the final series.

Total accessions of the year number 131,575, of which 123,057 are mollusks and insects. The balance of 8,518 are vertebrates, as follows: 1,276 mammals, 924 birds, 3,919 reptiles and 2,399 fishes. Most notable accession of the year is the Walter F. Webb collection of mollusks, obtained by purchase and including 20,000 lots of shells, with more than 100,000 specimens. There are many types, paratypes, and other specimens of historical value. Accessions of vertebrates were mainly from Museum expeditions, supplemented by occasional purchases and numerous gifts. As in former years, the Chicago Zoological Society contributed many animals which died at the Brookfield Zoo. Of these, 150 were preserved in the Division of Anatomy and Osteology, 144 being prepared as skeletons, and 6 as entire specimens. Especially important were the bodies of the giant panda "Mei Mei" and the gorilla "Sultan," which were embalmed and carefully injected for future dissection. The Museum, as in past years, is much indebted to the General Biological Supply House of Chicago for the embalming and injection of such specimens, a task which requires great skill and care, and involves a very considerable expense.

Gifts of reptiles include 122 specimens from Mr. Jerry Cordell, of Chicago, 96 from Mr. E. Wyllys Andrews, of Cambridge, Massachusetts, 52 from Mr. C. E. Burt, of Winfield, Kansas, 40 from Mr. W. C. Hobgood, of Monticello, Arkansas, and 35 from Dr. Henry Field, of Washington, D.C. A gift of 378 birds was received from Dr. Louis B. Bishop, of Pasadena, California. Of the 11,057 insects acquired, nearly 5,000 came as gifts—1,966 from Mr. Henry Dybas,

of Chicago, 840 from Dr. Charles H. Seevers, of Chicago, 300 from the Museum of Comparative Zoology, and 260 from Captain Rupert L. Wenzel.

Purchases during the year include several hundred small mammals from Ecuador, some 1,100 fishes from Texas, and some 4,000 insects from various sources. The Conover Collection of game birds deposited in the Museum was increased by some 400 specimens. This collection now totals nearly 16,000 specimens from all parts of the world, and as a specialized collection is rapidly becoming one of the most important of its kind in existence.

Cataloguing, Inventorying, and Labeling—

All Departments . . .

The customary attention was given in all four scientific departments to the tasks of cataloguing, inventorying, and labeling.

Anthropology . . .

In the Department of Anthropology, seventeen of the twenty-three new accessions of the year, and part of another one, were entered in the inventory books. Also, twenty-four previous accessions were entered in whole or in part. The number of catalogue cards prepared was 380, and 484 (including some held over from 1941) were entered. The number of catalogue cards entered since the inventory books were first opened now totals 228,217. Copy for 380 exhibition labels was prepared by the department staff. Including duplicates, the Division of Printing issued to this department 775 labels, as well as 450 catalogue cards.

Botany . . .

There were distributed by the Department of Botany in exchange to institutions and individuals in North and South America, 86 lots of duplicate material, totaling 21,470 items. Included were herbarium specimens, wood specimens, economic specimens, and photographs. Received on loan for study and determination were 39 lots of material, comprising more than 3,100 separate items. Fifty-nine lots, comprising more than 2,000 items, were lent for determination or use in monographic studies.

Much of the preparation of cryptogamic specimens for exchanges was done by Mr. Donald Richards of the University of Chicago. Records of all accessions, loan transactions, and photographs of

type specimens supplied to other institutions, as well as the various card catalogues in the Department Library were kept up to date by Miss Edith M. Vincent, Librarian of the Department. Records were also made of the accessions of economic specimens and woods.

Geology . . .

In the Department of Geology's twenty-nine record books the number of entries during the year was 591. All specimens received during the year were catalogued except for such vertebrate fossils collected by expeditions as have not yet been sufficiently prepared for cataloguing. All the classified card catalogues, which index the mineral, gem, meteorite, rock, photograph, map, and vertebrate fossil collections have been kept up to date. Much progress was made in the preparation of a card index of the invertebrate fossils until September when this work had to be suspended because the last of the invertebrate paleontology staff was called into the Army. In all, 693 cards were typed and filed. One hundred twenty-five photographs were mounted in the albums, labeled, and catalogued. Copy for 1,116 labels was written and printed, and the labels installed.

Zoology . . .

The year's entries in the catalogues of the Department of Zoology totaled 9,375. Those in the different divisions are not wholly comparable, since a single entry in some cases serves for a single specimen and in others for a considerable number. The record of entries is as follows: mammals 1,292; birds 3,605; reptiles 2,126; fishes 1,012; lower invertebrates 1,000; skeletons and anatomical preparations 237; insects 103. Cataloguing of birds has been carried on chiefly by volunteers, of whom Mrs. John Morrow has been most active.

Revision of the collections of mollusks has continued, some 2,000 numbers, representing about 6,000 specimens, having been assorted and relabeled. The collection of insects has received much attention, 2,900 specimens having been pinned, 2,500 pin-labeled, and 3,190 alcoholic specimens labeled and arranged. Some 400 microscope slides of insects were made. The general revision of the reptile collection, begun in 1940, was finished. Considerable rearrangement of the fish collection was accomplished, especially that part stored in large tanks. The number of specimens in the collection was determined to be about 156,000, of which 100,000 are determined and numbered.

The large Bishop collection of birds acquired in 1940 was allocated and distributed in systematic order, but a large part of it remains to be catalogued.

In the pages which follow are submitted the Museum's financial statements, lists of accessions, by-laws, lists of Members, *et cetera*.

ORR GOODSON, *Acting Director*

COMPARATIVE ATTENDANCE STATISTICS
AND DOOR RECEIPTS
FOR YEARS 1941 AND 1942

	1942	1941
Total attendance	1,025,002	1,358,147
Paid attendance	79,144	86,531
Free admissions on pay days:		
Students	23,906	88,276
School children	47,760	77,710
Teachers	1,787	3,022
Members	697	817
United States and other Service Men	5,484	891
Admissions on free days:		
Thursdays (52)	135,154	(51) 175,872
Saturdays (52)	226,455	(52) 339,453
Sundays (52)	504,615	(52) 585,575
Highest attendance on any day (June 14)	44,663	(May 27) 47,998
Lowest attendance on any day (Janu- ary 7)	84	(January 7) 103
Highest paid attendance (September 7)	3,320	(September 1) 3,515
Average daily admissions (363 days) . .	2,824	(363 days) 3,741
Average paid admissions (207 days) . .	382	(208 days) 416
Number of guides sold	12,471	11,943
Number of articles checked	24,426	20,601
Number of picture post cards sold . . .	87,409	84,226
Sales of publications, leaflets, hand- books, portfolios, and photographs	\$4,901.58	\$5,018.42

COMPARATIVE FINANCIAL STATEMENTS

FOR YEARS 1941 AND 1942

INCOME	1942	1941
Endowment Funds.....	\$190,680.38	\$196,442.74
Funds held under annuity agreements.....	18,139.55	22,533.33
Life Membership Fund.....	9,140.57	10,713.74
Associate Membership Fund...	10,722.75	12,288.74
Chicago Park District.....	138,501.22	129,498.70
Annual and Sustaining Memberships.....	12,835.00	12,770.00
Admissions.....	19,786.00	21,632.75
Sundry receipts.....	16,174.85	16,912.14
Contributions, general purposes.	1,272.00	22.00
Contributions, special purposes (expended <i>per contra</i>).....	14,041.16	16,059.69
Special Funds—part expended for purposes designated (included <i>per contra</i>).....	<u>14,511.48</u>	<u>14,449.56</u>
	\$445,804.96	\$453,323.39

EXPENDITURES

Collections.....	\$ 10,753.14	\$ 17,650.52
Operating expenses capitalized and added to collections...	51,352.06	49,936.12
Expeditions.....	1,244.99	13,888.32
Furniture, fixtures, etc.....	8,549.53	21,900.91
Wages capitalized and added to fixtures.....	5,036.69	3,384.89
Pensions and Group Insurance..	43,583.03	52,452.46
Departmental expenses.....	35,742.78	46,112.71
General operating expenses...	321,334.09	311,377.97
Building repairs and alterations.	47,584.94	100,704.53
Annuities on contingent gifts...	25,000.00	26,271.86
Reserve for repairs and depreciation.....	35,000.00	35,000.00
Reserve for contingencies arising from the war.....	<u>30,000.00</u>	<u>.....</u>
	615,181.25	678,680.29
Deficit....	\$169,376.29	\$225,356.90
Contribution by Mr. Marshall Field.....	<u>167,208.63</u>	<u>252,541.42</u>
Deficit....	\$ 2,167.66	Balance. \$ 27,184.52

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

	1942	1941
Income from endowment.....	\$ 16,795.92	\$ 20,220.32
Operating expenses.....	<u>16,639.50</u>	<u>19,063.11</u>
Balance.....	\$ 156.42	\$ 1,157.21

CONTRIBUTIONS AND BEQUESTS

Contributions and bequests to Field Museum of Natural History may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver.

Contributions made to the Museum are allowable as deductions in computing net income for federal income tax purposes, subject only to the limitation that the total deduction for charitable gifts may not exceed in any year 15 per cent of the contributor's net income.

Contributions and bequests in any amount to Field Museum of Natural History are exempt from federal gift and estate taxes.

Endowments may be made to the Museum with the provision that an annuity be paid to the patron during his or her lifetime.

For those desirous of making bequests to the Museum the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Field Museum of Natural History of the City of Chicago, State of Illinois,

LIST OF ACCESSIONS

DEPARTMENT OF ANTHROPOLOGY

ADAMS, JOSEPH, Chicago: 1 chased bowl—Burma; 2 silver spoons and 2 silver maté tubes—Lima, Peru; 1 hat—Korea (gift).

ANDEAN INSTITUTE—FIELD MUSEUM EXPEDITION TO ECUADOR: *see* FIELD MUSEUM OF NATURAL HISTORY.

ARMJO, JOSÉ, Frisco, New Mexico: 1 stone ax and 1 San Francisco Red jar—near Reserve, New Mexico (gift).

BICKNELL, MRS. JESSIE V., Des Moines, Iowa: 2 bolas—Argentina (gift).

CLARKE, MRS. BROADUS, Chicago: 1 Huastec jar—Mexico City; 1 anthropomorphic figurine of clay with whistle and tripod legs—Vera Cruz, Mexico (gift).

COLLIER, MRS. DONALD, Chicago: 1 Navajo jar—Black Mesa, Arizona (gift).

DOUBLEDAY, RICHARD A., Chicago: boy's suit, consisting of jacket, trousers, belt and headdress—Chichicastenango, Guatemala (gift).

FARLEY, MRS. NEVA H., St. Paul, Minnesota: 10 Chinese bronze mirrors dating from Chou to Sung periods—Shanghai, China (gift).

FOGG MUSEUM OF ART, Cambridge, Massachusetts: 8 Neolithic painted pottery jars—Kanau Province, China (purchase).

FIELD MUSEUM OF NATURAL HISTORY:

Collected by Donald Collier (Andean Institute—Field Museum Expedition to Ecuador): 10 restored pots, 5 whole pots, 20,000 potsherds, 100 tools and ornaments of stone, bone, shell and metal, and 180 field photographs—Ecuador.

GEDULDIG, IVAN, Chicago: 1 pair beaded moccasins—Plains area (gift).

KLEIJKAMP, INC., New York: group of 11 pottery mortuary figures—Peking, China (purchase).

KIEHNE, MAX, Frisco, New Mexico: 1 stone ax and 1 string of stone beads—Eagle Peak, Apache National Forest, New Mexico (gift).

LOO, C. T., New York: 2 bronze dagger axes and 1 pair bronze chariot hub caps—Anhui and Honan provinces, China (purchase).

MCCORMICK, MRS. CHAUNCEY, Chicago: 2 strings of gold and glass beads—Rome, 4th century A.D.; 1 string of gold and turquoise beads—Islam (gift).

NAVAJO TRIBAL ARTS AND CRAFTS PROJECT, Window Rock, Arizona: 1 cast silver buckle and 1 cast silver bracelet—Arizona (purchase).

POPE, MISS KATHERINE, Chicago: 2 pieces of tapa cloth—Honolulu, Hawaii (gift).

ROGERS, MRS. BENTON S., Reserve, New Mexico: 1 toy pot, 1 small string stone beads, 3 stone implements—Eagle Peak, Apache National Forest, New Mexico (gift).

ROYAL ONTARIO MUSEUM OF ARCHAEOLOGY, Ontario, Canada: 1 pottery rattle, 4 pottery lamps, 20 pottery vessels—Palestine (exchange).

SONNENSCHN, MRS. EDWARD, Glen-coe, Illinois: bronze weapons, bone objects, iron with gold inset, and stone chisels (28 specimens)—north China, Shang and Chou periods (gift).

SPOEHR, MRS. ANNE HARDING, Winnetka, Illinois: 2 Navajo silver buttons—Arizona (gift).

SPRUELL, LEONARD, Coolidge, Arizona: 2 Hohokam jars—southern Arizona (gift).

UNIVERSITY OF CHICAGO, Chicago: 176 specimens of ivory, bone and stone, Manitunik Eskimo culture—Belcher Islands, Hudson Bay, Canada (exchange).

DEPARTMENT OF BOTANY—ACCESSIONS

ACADEMY OF NATURAL SCIENCES, Philadelphia, Pennsylvania: 17 specimens of algae (exchange).

AGUILAR G., JOSÉ IGNACIO, Guatemala City, Guatemala: 1,027 specimens of Guatemalan plants (gift).

ALBERTO, REV. HERMANO TOMÁS, Yarumal, Colombia: 12 specimens of Colombian plants (exchange).

ALFARO, PROFESSOR ANASTASIO, San José, Costa Rica: 1 plant specimen (gift).

ALLEN, PAUL H., Balboa, Canal Zone: 72 specimens of Panama plants (gift).

ARNOLD ARBORETUM, Jamaica Plain, Massachusetts: 2,303 plant specimens (exchange).

BAILEY HORTORIUM, Ithaca, New York: 4 plant specimens (exchange).

BARKLEY, DR. FRED A., Austin, Texas: 1 plant specimen, 17 specimens of algae (gift).

BAZUIN, C. W., Grand Rapids, Michigan: 124 specimens of Michigan plants (gift).

BENKE, HERMANN C., Chicago: 180 specimens of United States plants (gift).

BOCKELMANN, MRS. JEAN BADER, West New York, New Jersey: 118 specimens of algae (gift).

BOTANICAL MUSEUM, HARVARD UNIVERSITY, Cambridge, Massachusetts: 92 specimens of Costa Rican orchids (exchange).

BRANNON, DR. M. A., Gainesville, Florida: 122 specimens of Florida algae (gift).

BRITTON, DR. M. E., Evanston, Illinois: 2 specimens of algae (gift).

BYRNES, SISTER MARY LEO, Atlantic City, New Jersey: 2 specimens of algae (gift).

CALIFORNIA ACADEMY OF SCIENCES, San Francisco, California: 235 specimens of United States plants (exchange).

CARTER, DR. ARMETTA, Berkeley, California: 22 specimens of California algae (gift).

CAYLOR, DR. R. L., Cleveland, Mississippi: 23 specimens of algae (gift).

CLOKEY, PROFESSOR IRA W., South Pasadena, California: 95 specimens of Nevada plants (exchange); 13 plant specimens (gift).

COHEN, DR. AARON A., Spivak, Colorado: 9 specimens of algae (gift).

CONDIT, PROFESSOR IRA J., Riverside, California: 2 specimens of cultivated plants (gift).

COOKE, DR. WILLIAM BRIDGE, San Francisco, California: 1 cryptogamic specimen (gift).

COPULOS, MILTON, Chicago: 1 specimen of diatom (gift).

CORNMAN, MRS. M. ALICE, Cardiff-by-the-Sea, California: 101 specimens of mosses from Panama (gift).

DAHLGREN, DR. B. E., Chicago: 2 economic specimens (gift).

DAILY, WILLIAM A., Indianapolis, Indiana: 628 specimens of algae (gift).

DASTON, JOSEPH, Childersburg, Alabama: 1 herbarium specimen, 1 wood specimen, 1 economic specimen, 36 cryptogamic specimens (gift).

DEGENER, OTTO, Waiialua, Oahu, Hawaii: 601 specimens of Hawaiian plants (gift).

DROUET, DR. FRANCIS, Chicago: 548 cryptogamic specimens (gift).

DUDLEY HERBARIUM, Stanford University, California: 372 plant specimens, chiefly from Mexico (exchange).

DUKE UNIVERSITY, Department of Botany, Durham, North Carolina: 200 specimens of United States plants (exchange).

DYBAS, HENRY S., Chicago: 1 plant specimen, 54 specimens of fungi (gift).

EIFRIG, PROFESSOR G., River Forest, Illinois: 3,036 plant specimens (gift).

ESCUELA SUPERIOR DE AGRICULTURA TROPICAL, Cali, El Valle, Colombia: 475 specimens of Colombian plants (exchange).

FARLOW HERBARIUM, Cambridge, Massachusetts: 60 specimens of lichens (exchange).

FIELD, DR. HENRY, Washington, D.C.: 1 plant specimen, 4 economic specimens, 75 cryptogamic specimens (gift).

FIELD MUSEUM OF NATURAL HISTORY: Collected by Emil Sella (Field Museum Expedition to Maine, July, 1940): 95 specimens of marine algae.

Collected by Dr. Julian A. Steyermark (Field Museum's Fourth Botanical Expedition to Guatemala): 30,000 plant specimens, 110 wood specimens.

DEPARTMENT OF BOTANY—ACCESSIONS (*Continued*)

Purchases: 136 plant specimens—Montana; 677 plant specimens—Mexico and British Honduras.

FISHER, GEORGE L., Houston, Texas: 107 specimens of Texas plants (gift).

FOSBERG, DR. F. RAYMOND, Falls Church, Virginia: 2 specimens of algae (gift).

GARFIELD PARK CONSERVATORY, Chicago: 2 plant specimens (gift).

GENTRY, HOWARD SCOTT, Ann Arbor, Michigan: 29 specimens of Mexican plants (gift).

GILES, GEORGE H., Wilsonville, Nebraska: 3 specimens of algae (gift).

GRAHAM, DR. V. O., Chicago: 1 plant specimen (gift).

GRAY, MRS. NETTA, Urbana, Illinois: 46 specimens of algae (gift).

GRAY HERBARIUM, Cambridge, Massachusetts: 190 plant specimens (exchange).

GROUT, DR. ABEL J., Newfane, Vermont: 67 specimens of mosses (exchange).

GUERRERA, S. A., Buenos Aires, Argentina: 1 algal specimen (gift).

HAAS, DR. FRITZ, Chicago: 10 specimens of marine algae (gift).

HAMBLY, DR. WILFRID D., Chicago: 3 specimens of algae (gift).

HANSON, DR. HERBERT C., Madison, Wisconsin: 34 plant specimens (gift).

HARPER, DR. ROLAND M., University, Alabama: 50 photographic prints, 19 plant specimens (gift).

HEATH, CHARLES A., Chicago: 10 specimens of cultivated plants (gift).

HEWETSON, WILLIAM T., Freeport, Illinois: 2 plant specimens (gift).

HOOGSTRAAL, DR. HARRY, Urbana, Illinois: 98 specimens of Mexican plants, 15 wood specimens (gift).

HULL, EDWIN D., Gary, Indiana: 5 plant specimens (gift).

HUTCHINSON, DR. G. EVELYN, New Haven, Connecticut: 9 specimens of algae (gift).

ILLINOIS STATE MUSEUM, Springfield, Illinois: 86 specimens of Illinois plants (gift).

INSTITUT BOTANIQUE, UNIVERSITÉ DE MONTRÉAL, Montreal, Canada: 30 specimens of algae (exchange).

INSTITUTO BIOLOGICO, São Paulo, Brazil: 10 plant specimens (gift).

INSTITUTO DE CIENCIAS NATURALES, Bogotá, Colombia: 89 specimens of Colombian plants (exchange).

JARDIM BOTANICO DE BELO HORIZONTE, Minas Geraes, Brazil: 52 specimens of Brazilian plants (gift).

JUST, DR. THEODOR, Notre Dame, Indiana: 205 specimens of algae (gift).

KENDALL, MRS. B. A., Elburn, Illinois: 1 plant specimen (gift).

KIENER, DR. WALTER, Lincoln, Nebraska: 1,173 cryptogamic specimens (gift).

KILLIP, ELLSWORTH P., Washington, D.C.: 9 specimens of algae (gift).

KING, LAWRENCE J., Coshocton, Ohio: 196 specimens of algae (gift).

KLEEREKOPER, DR. HERMAN, Porto Alegre, Brazil: 61 specimens of Brazilian algae (gift).

KRUKOFF, BORIS A., New York: 1 wood specimen (gift); 237 plant specimens, 8 type photographs (exchange).

LACKEY, DR. JAMES B., Cincinnati, Ohio: 3 specimens of algae (gift).

LAKE, WILLIAM E., Chicago: 10 specimens of algae (gift).

LANOUILLE, Mlle Cécile, Montreal, Canada: 3 specimens of algae (gift).

LINDSAY, WALTER R., Summit, Canal Zone: 3 plant specimens (gift).

LITTLE, DR. ELBERT L., JR., Tucson, Arizona: 7 cryptogamic specimens (gift).

LUTTRELL, E. S., Experiment, Georgia: 7 specimens of lichens (gift).

MACBRIDE, J. FRANCIS, Chicago: 95 cryptogamic specimens (gift).

MCALLUM, DR. W. B., Salinas, California: 6 specimens of guayule plants (gift).

MCVAUGH, DR. ROGERS, Takoma Park, Washington, D.C.: 92 specimens of Delaware plants (gift).

MALDONADO, PROFESSOR ANGEL, Lima, Peru: 138 specimens of Peruvian algae (gift).

MARCELLINE, SISTER M., Grand Rapids, Michigan: 76 specimens of Michigan plants (gift).

MARTIN, DR. G. W., Iowa City, Iowa: 1 plant specimen (gift).

DEPARTMENT OF BOTANY—ACCESSIONS (*Continued*)

MARTÍNEZ, PROFESSOR MAXIMINO, Mexico City, Mexico: 3 plant specimens (gift).

METZENBERG, LEOPOLD, Chicago: 2 specimens of coal balls (gift).

MIRANDA, PROFESSOR F., Chapultepec, Mexico: 3 plant specimens (gift).

MISSOURI BOTANICAL GARDEN, St. Louis, Missouri: 286 specimens of plants from Mexico and the United States, 13 specimens of cryptogams (exchange).

MONTANA STATE UNIVERSITY, Department of Botany, Missoula, Montana: 7 plant specimens (gift); 130 specimens of Montana plants, 13 cryptogamic specimens (exchange).

NEW YORK BOTANICAL GARDEN, New York: 1 plant specimen, 694 cryptogamic specimens (exchange).

NEW YORK STATE COLLEGE OF FORESTRY, Syracuse, New York: 249 specimens of plants from Guatemala and British Honduras (gift).

NICHOLSON, MISS LILLIAN, St. Louis, Missouri: 9 specimens of algae (gift).

NIELSEN, DR. J. E., Chicago: 21 specimens of algae (gift).

NORTH DAKOTA AGRICULTURAL COLLEGE, Department of Botany, Fargo, North Dakota: 125 specimens of North Dakota plants (exchange).

OGDEN, DR. E. C., Orono, Maine: 22 plant specimens (gift).

PATRICK, DR. RUTH, Philadelphia, Pennsylvania: 21 specimens of algae, 16 slides of diatoms (gift).

PEARSALL, GORDON, Maywood, Illinois: 33 plant specimens (gift).

PEGGS, A. DEANS, Nassau, Bahamas: 4 specimens of algae (gift).

PHINNEY, HARRY K., Albion, Michigan: 382 cryptogamic specimens (gift).

PICKEL, PROFESSOR D. BENTO, São Paulo, Brazil: 2 plant specimens (gift).

POMONA COLLEGE, Department of Botany, Claremont, California: 27 type photographs (exchange).

PRESCOTT, DR. GERALD W., Albion, Michigan: 9 specimens of algae (gift).

RABINOVICH, SENORITA DELIA, Buenos Aires, Argentina: 27 specimens of algae (gift).

REEVES, PROFESSOR ROBERT G., College Station, Texas: 1 plant specimen (gift).

RICHARDS, DONALD, Chicago: 72 specimens of United States plants, 1,570 cryptogamic specimens (gift).

SANBORN, MISS ETHEL J., Corvallis, Oregon: 45 specimens of bryophytes (exchange).

SCHULTES, DR. RICHARD EVANS, Bogotá, Colombia: 1 plant specimen (gift).

SELLA, EMIL, Chicago: 10 plant specimens (gift).

SHARP, DR. AARON J., Knoxville, Tennessee: 1 plant specimen (gift).

SHERFF, DR. EARL E., Chicago: 39 plant specimens, 59 photographic negatives (gift).

SILVA, HERMAN, Knoxville, Tennessee: 111 specimens of algae (gift).

SMITH, MRS. OLIVE GAUMER, Chicago: 9 specimens of mosses and lichens (gift).

SNOW, DR. EDNA, Provo, Utah: 11 specimens of algae (gift).

SOLHEIM, DR. W. G., Laramie, Wyoming: 16 specimens of algae (gift).

STIFFLER, MRS. CLOYD B., Wilmette, Illinois: 8 cryptogamic specimens (gift).

STRICKLAND, J. C., Charlottesville, Virginia: 775 specimens of algae (exchange).

SUTLIFFE, MRS. E. C., San Francisco, California: 12 specimens of hepatics (exchange).

TAYLOR, DR. WILLIAM RANDOLPH, Ann Arbor, Michigan: 9 specimens of algae (gift).

THOMPSON, FRED O., Des Moines, Iowa: 5 fossil plant specimens (gift).

TORRES R., PROFESSOR RUBÉN, San José, Costa Rica: 2 specimens of algae (gift).

TRYON, DR. ROBERT M., Cambridge, Massachusetts: 63 plant specimens (exchange).

UNITED STATES CUSTOMS HOUSE, Chicago: 2 economic specimens (gift).

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 356 specimens of algae (gift); 210 photographic prints, 301 cryptogamic specimens, 739 specimens of Central and South American plants (exchange).

UNIVERSITY OF CALIFORNIA, Department of Botany, Berkeley, California: 941 specimens of algae (gift); 5,670 specimens of algae, 276 specimens of California plants (exchange).

DEPARTMENT OF BOTANY—ACCESSIONS (*Continued*)

UNIVERSITY OF CALIFORNIA, College of Agriculture, Division of Agronomy, Berkeley, California: 109 specimens of California plants (exchange).

UNIVERSITY OF CALIFORNIA, College of Agriculture, Division of Forestry: 21 slides of menisperm woods (gift).

UNIVERSITY OF CALIFORNIA, Department of Botany, Los Angeles, California: 3 plant specimens (gift).

UNIVERSITY OF CHICAGO, Department of Botany, Chicago: 2,528 specimens of fungi (gift).

UNIVERSITY OF MICHIGAN, Herbarium, Ann Arbor, Michigan: 118 plant specimens (exchange).

UNIVERSITY OF PENNSYLVANIA, Department of Botany, Philadelphia, Pennsylvania: 202 cryptogamic specimens (exchange).

UNIVERSITY OF WASHINGTON, Department of Botany, Seattle, Washington: 578 plant specimens, chiefly from Washington (exchange).

VALERIO, PROFESSOR MANUEL, San José, Costa Rica: 8 specimens of Costa Rican plants (gift).

VAUGHAN'S SEED STORE, Chicago: 1 plant specimen (gift).

VON HAGEN, DR. VICTOR WOLFGANG, Santa Monica, California: 9 specimens of Mexican plants and paper made from them (gift).

WELCH, DR. WINONA H., Greencastle, Indiana: 51 specimens of bryophytes (exchange).

WESTCOTT, RUSSELL C., Los Angeles, California: 5 specimens of cultivated plants (gift).

WOOD, PRIVATE RICHARD D., Fort Bliss, Texas: 139 specimens of Texas plants, 88 cryptogamic specimens (gift).

WOODS, LOREN P., Chicago: 48 specimens of Michigan algae (gift).

WOYTKOWSKI, FELIX, Lima, Peru: 20 specimens of Peruvian plants (gift).

YALE UNIVERSITY, SCHOOL OF FORESTRY, New Haven, Connecticut: 1 plant specimen (gift).

YELLOWSTONE LIBRARY AND MUSEUM ASSOCIATION, Yellowstone Park, Wyoming: 2 plant specimens (gift).

DEPARTMENT OF GEOLOGY—ACCESSIONS

AMERICAN MUSEUM OF NATURAL HISTORY, New York: 8 specimens of *Homogalax*—Wyoming; 4 casts of vertebrate fossils (exchange).

BARBER, C. M., Hot Springs, Arkansas: 2 specimens of fossil turtles—Columbus, Arkansas (gift).

BARNES, O. C., Los Angeles, California: 7 specimens of polished fossil wood, 2 specimens of polished fossiliferous limestone, 1 specimen of polished orbicular diorite—Nevada (gift).

BECKER, DR. A. H., Madison, Wisconsin: 1 moonstone cabochon—Wausau, Wisconsin (gift).

BENDER, NELSON, Freeport, Illinois: Part of skull of *Leptauchenia decora*—Bad Lands, South Dakota (gift).

BRIGHT, MISS DOROTHY, Kankakee, Illinois: 3 trilobites—Kankakee, Illinois (gift).

BURCKY, DR. FREDERICK W., Evanston, Illinois: 19 specimens of fossil wood, 12 specimens of malachite concretions, 1 specimen of nephrite jade, 3 moss agate cabochons—western states;

63 carnelian specimens—Utah and Hot Springs, New Mexico; 1 polished slice of red dinosaur bone—Colorado (gift).

BURTON, ROBERT A., Evanston, Illinois: 5 invertebrate fossils—Orland Park, Illinois (gift).

DEARDORFF, HAZEL, Rifle, Colorado: 3 specimens of early Eocene mammals—Rifle, Colorado (gift).

DOLESE AND SHEPARD COMPANY, Chicago: 1 specimen of cephalopod—Hodgkins, Illinois (gift).

FIELD MUSEUM OF NATURAL HISTORY: Collected by Bryan Patterson, James H. Quinn, Edwin C. Galbreath (Field Museum Paleontological Expedition to Colorado, 1939 and 1941): 553 specimens of fossil vertebrates, invertebrates and plants—Colorado, Nebraska and South Dakota.

Collected by Dr. Paul O. McGrew (Field Museum Paleontological Expedition to Honduras 1941 and 1942): 242 specimens of vertebrate fossils—Honduras.

Collected by James H. Quinn and Orville Gilpin (Field Museum Expe-

DEPARTMENT OF GEOLOGY—ACCESSIONS (Continued)

dition to Utah, 1942): 23 specimens of vertebrate and invertebrate fossils—Utah, Colorado and Nebraska.

Collected by Paul C. Standley (Stanley Field Botanical Expedition to Guatemala, 1940 and 1941): 3 specimens of phlogopite—Guatemala.

Collected by Colin C. Sanborn (Field Museum Zoological Expedition to Peru, 1942): 1 specimen of fossiliferous limestone and 1 specimen of cement rock—Peru.

Collected by Leon Walters (Leon Mandel Galapagos Expedition): 2 specimens of cellular basalt—Charles Island, Galapagos Islands.

Collected by Dr. B. E. Dahlgren: 8 specimens of chromite—Cuba.

Transferred from the Department of Botany: 2 coal balls and 2 coal ball sections—Illinois and Des Moines, Iowa.

Purchases: 4 Devonian fish—Quebec, Canada; 1 iron meteorite—Smithonia, Georgia; 26 specimens of invertebrate fossils—Paraguay; cast of skull of dinosaur, *Tyrannosaurus rex*.

FIELD, DR. HENRY, Washington, D.C.: 2 specimens of phyllite schist—Trinidad (gift).

FORT HAYS KANSAS STATE COLLEGE, Hays, Kansas: 1 fossil fish, *Phareodus testis* Cope—Fossil, Wyoming (exchange).

FRICK, DR. CHILDS, Roslyn, Long Island: Skull of *Teleoceras*—Ainsworth, Nebraska (gift).

GOLDRING, E. D., Cowdrey, Colorado: 4 specimens of ilsemanite—Cowdrey, Colorado (gift).

HAFFER, C., Candor, North Carolina: 21 specimens of minerals—North Carolina (gift).

HARRIS, WILLIAM M., Mesa, Colorado: 4 specimens of Paleocene mammals—Plateau Valley, Colorado (gift).

HOLT, PROFESSOR EDWARD L., Grand Junction, Colorado: *Metacarpus* of *Apatosaurus*—Floy Junction, Utah (gift); partial skeleton of *Apatosaurus*—Floy Junction, Utah (exchange).

HUSS, GEORGE, Chicago: 1 fluorite crystal—Mahoning Mine, Illinois (gift).

JOHNSON, ROBERT G., Le Grand, Iowa: 1 specimen of fossil coral—near Le Grand, Iowa (gift).

KOPPERS COMPANY, Cicero, Illinois: 2 specimens of oil (gift).

LA PAZ, PROFESSOR LINCOLN: Columbus, Ohio: 3 tektites—Texas (gift).

MCCLUN, JOHN, Chicago: 2 septaria (gift).

MACEDO, RICARDO, Puno, Canabaya Usixcayas, Peru: 7 invertebrate fossils—Puno, Canabaya, Peru (gift).

MEADE, GRAYSON, Lubbock, Texas: 6 coprolites; 1 fossil egg—northwest Nebraska, Bad Lands (gift).

MENZEL, WILLIAM E., Chicago: 3 cabochons of anorthosite—Wausau, Wisconsin (gift).

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: 3 fossil turtles—Arkansas (exchange).

NICHOLS, HENRY W., Chicago: fragment of crust of Pine River meteorite—Pine River, Wisconsin (gift).

NININGER, DR. H. H., Denver, Colorado: 11 specimens of meteorites—various localities (exchange).

PEABODY MUSEUM, YALE UNIVERSITY, New Haven, Connecticut: 28 casts of fossil vertebrates (exchange).

PEOPLES GAS LIGHT AND COKE COMPANY, Chicago: 4 specimens of coal-tar products (gift).

PERRY, STUART H., Adrian, Michigan: 1 specimen of meteorite—Cedartown, Georgia (exchange).

QUINN, JAMES H., South Holland, Illinois: 2 specimens of diatomaceous earth—Ainsworth, Nebraska (gift).

RUEGG, R., La Junta, Colorado: 1 mold of dinosaur track (gift).

SWIGART, RAY C., Rifle, Colorado: incomplete skull of *Titanotherium*—western Colorado (gift).

UNIVERSITY OF CHICAGO, Chicago: 2 specimens of fossil tracks of *Microsaurus acutipes*—Texas (gift).

DEPARTMENT OF ZOOLOGY—ACCESSIONS

ALBRECHT, C. J., Homewood, Illinois:
1 tick—Crete, Illinois (gift).

ALLEN, ROSS, Silver Springs, Florida:
2 coral snakes and coral snake eggs—
Florida (gift).

AMERICAN MUSEUM OF NATURAL
HISTORY, New York: 11 rodents—
Colombia (gift); 53 beetles, 7 spiders—
various localities (exchange).

ANDREWS, E. W., Cambridge, Mas-
sachusetts: 14 frogs, 49 lizards, 33
snakes—Yucatan (gift).

BABCOCK, JAMES N., Kenilworth,
Illinois: 1 water snake—Porter County,
Indiana (gift).

BALDWIN, MRS. AMY G., Chicago: 1
horned lark—Ridgway, Iowa (gift).

BARMACK, MRS. B. J., Porter County,
Indiana: 1 hog-nosed snake—Porter
County, Indiana (gift).

BEECHER, WILLIAM, Chicago: 9 liz-
ards, 2 snakes, 8 insects and their
allies—Arkansas (gift).

BERGSTROM, DAVID W., Chicago: 163
lots of mollusks, 2 lots of isopods—
Mexico (gift).

BEST, MISS ELIZABETH, Glencoe,
Illinois: 6 moths—Glencoe, Illinois
(gift).

BEST, WILLIAM P., Glencoe, Illinois:
1 moth—Glencoe, Illinois (gift).

BISHOP, DR. LOUIS B., Pasadena,
California: 378 birds—various localities
(gift).

BOOTHROYD, THOMAS S., Chicago: 1
wheel bug—Fox Lake, Illinois (gift).

BOWER, WILLIAM J., Bronxville,
New York: 24 fresh-water snails—St.
Petersburg, New York (gift).

BROWN, BRYCE C., Harlingen, Texas:
20 toads—Austin, Texas (exchange).

BURT, CHARLES E., Winfield, Kansas:
3 frogs—Florida; 2 salamanders—
North Carolina; 1 salamander, 46
snakes—Cowley County, Kansas (gift).

BURTON, ROBERT A., Evanston,
Illinois: part of a fur seal skin—Gala-
pagos Islands; 1 spider—Arkansas
(gift).

BURTON, ROBERT A., JOHN KURFESS,
AND DONALD KEMP, Evanston, Illinois:
92 salamanders, 19 frogs, 72 lizards, 8
snakes, 4 turtles—Arkansas and Mis-
souri (gift).

CALLAN, DR. EDWARD M., Trinidad,
British West Indies: 1 series of tadpoles,
1 frog, 1 lizard, 1 snake—Trinidad
(gift).

CAGLE, FRED, Carbondale, Illinois:
7 frogs, 4 lizards, 4 turtles—Illinois
(gift).

CAMPBELL, GEORGE G., United States
Naval Base, British West Indies: 1
lizard, 4 snakes—Trinidad (gift).

CAMRAS, SIDNEY, Chicago: 160 in-
sects—various localities (gift).

CARNEGIE MUSEUM, Pittsburgh,
Pennsylvania: 11 lizards, 1 snake, 12
frogs, 21 butterflies—various localities
(exchange).

CARTWRIGHT, DR. O. L., Clemson,
South Carolina: 29 beetles—Georgia
and South Carolina (gift); 19 beetles—
various localities (exchange).

CHICAGO ACADEMY OF SCIENCES,
Chicago: 1 least weasel—Cook County,
Illinois (exchange).

CHICAGO ZOOLOGICAL SOCIETY,
Brookfield, Illinois: 23 mammals, 142
birds, 2 bird eggs, 2 lizards, 5 snakes,
220 bird lice—various localities (gift).

CIESLAK, EDWIN S., Chicago: 126
garter snake skins—Cook County,
Illinois (gift).

COLORADO MUSEUM OF NATURAL
HISTORY, Denver, Colorado: 1 sage
grouse—Walden, Colorado (gift).

CONOVER, BOARDMAN, Chicago: 4
birds—various localities (gift).

CORDELL, JERRY, Chicago: 103 sala-
manders, 6 frogs, 5 snakes, 8 turtles—
Illinois and Indiana (gift).

CREA, JOHN H., Fargo, North
Dakota: 1 bittern—Yorkshire, England
(gift).

DAHLGREN, DR. B. E., Chicago: 1
toad, 1 scorpion—Cuba (gift).

DARROW, R. A., Oak Park, Illinois:
15 small mammals—Cook County,
Illinois (gift).

DAVIS, D. DWIGHT, Naperville, Illi-
nois: 1 tadpole, 1 snake—Illinois (gift).

DAVIS, D. DWIGHT, Naperville, Illi-
nois, DR. FRITZ HAAS, AND LOREN P.
WOODS, Chicago: 720 worms, crusta-
ceans and shells—near Naperville,
Illinois (gift).

DOHERTY, PATRICK, Chicago: 1 milk
snake—Hamilton County, Illinois (gift).

DYBAS, HENRY, Chicago: 6 sala-
manders, 1,966 insects and allies, 34
isopods, 483 shells—various localities
(gift).

DEPARTMENT OF ZOOLOGY—ACCESSIONS (Continued)

EDGREN, RICHARD, Chicago: 10 salamanders, 1 garter snake, 1 musk turtle—Racine County, Wisconsin (gift).

EIFRIG, PROFESSOR C. W. G., River Forest, Illinois: 5 weasel skulls—Illinois; 1 turtle skull—Green County, Arkansas (gift).

EIGSTI, W. E., Chicago Heights, Illinois: 4 small mammals, 2 land shells—Illinois (gift).

FIELD, DR. HENRY, Washington, D.C.: 8 tadpoles, 7 toads, 14 salamanders—Highlands, North Carolina; 1 series of tadpoles, 1 lizard, 9 insects, 8 corals, 114 shells, 7 crabs—Trinidad (gift).

FIELD MUSEUM OF NATURAL HISTORY:

Collected by C. J. Albrecht: 24 lizards, 30 fishes, 3 insects, 1 spider—Mojave Desert, California.

Collected by Emmet R. Blake (Sewell Avery British Guiana Expedition): 1 louse-fly, 27 ticks, 7 parasitic copepods—British Guiana.

Collected by Dr. Francis Drouet (Field Museum Cryptogamic Expedition to California): 65 fresh-water shells—California.

Collected by Henry Dybas: 11 mites, 14 parasitic flies—on birds from Ecuador.

Collected by Dr. Paul O. McGrew (Field Museum Paleontological Expedition to Honduras): 1 deer skull, 1 frog, 5 lizards, 3 snakes, 16 insects and their allies, 4 fresh-water crustacea—Honduras.

Collected by Bryan Patterson (Field Museum Paleontological Expedition to Colorado, 1941): 31 insects and their allies—Colorado.

Collected by Clifford H. Pope: 1 tadpole, 14 toads, 10 lizards, 35 snakes, 8 turtles—Illinois and Indiana.

Collected by James H. Quinn and Orville L. Gilpin (Field Museum Paleontological Expedition to Utah): 8 insects—Thompson, Utah.

Collected by Colin C. Sanborn (Field Museum Peruvian Zoological Expedition, 1941-42): 349 mammal skins, skulls and skeletons, 73 mammals in alcohol, 22 birds, 574 frogs, 50 snakes, 180 lizards, 310 fishes, 569 insects and their allies—Peru.

Collected by Colin C. Sanborn and W. E. Eigsti: 41 small mammals, 2 frogs, 1 snake, 4 turtles—Illinois.

Collected by Karl P. Schmidt (Marshall Field Honduras Expedition): 62 invertebrates—Honduras.

Collected by José Steinbach (Field Museum Mt. Sajama Expedition): 116 mammals, 157 birds, 9 frogs, 22 lizards, 25 fishes—Bolivia.

Collected by Dr. Julian A. Steyermark and A. E. Vatter, Jr. (Field Museum Guatemala Botanical Expedition, 1941-42): 16 mammals, 164 birds, 27 frogs, 21 lizards, 14 snakes, 65 insects and their allies, 6 shells and crustaceans—Guatemala.

Collected by Rupert L. Wenzel: 6 insects—Porter County, Indiana.

Collected by Loren P. Woods: 52 fresh-water invertebrates—Posey County, Indiana.

Purchases: 2 fox skins—Alaska and ?; 1,001 beetles—Brazil and Argentina; 12 hawks and owls—British Columbia; 1 giant panda—China; 347 small mammals—Ecuador; 2 beetles, 10 marine shells—Florida; 3 chimney swift nests—Illinois; 77 frogs, 4 lizards, 10 snakes, 490 fishes—India and Philippine Islands; 12 birds of prey—Manchukuo; 134 birds, 792 amphibians and reptiles, 25 fishes, 2,392 insects and their allies—Mexico; 1 American badger—North Dakota; 1 guinea pig—Paraguay; 15 hawks and owls, 34 bats, 4 series of juvenile frogs, 729 frogs, 1 lizard, 24 snakes—Peru; 7 lizards, 3 snakes, 720 fishes, 571 insects and their allies, 1,529 marine and fresh-water invertebrates—mostly Texas; 70 small mammals—mostly Utah; 2 human pelvises, 42 miscellaneous birds, 6 caecilians, 10 frogs, 46 lizards, 49 snakes, 3,100 land and fresh-water shells—various localities.

FINERTY, MISS MARGARET, Homewood, Illinois: 1 mole—Homewood, Illinois (gift).

GENERAL BIOLOGICAL SUPPLY HOUSE, 1 steer head; 4 fresh-water shells—Chicago region (gift).

GERHARD, WILLIAM J., Chicago: 18 insects—various localities (gift).

GOODSON, ORR, Glencoe, Illinois: 4 chipmunks—Cook County, Illinois (gift).

GROESBECK, DR. M. J., Porterville, California: 25 fresh-water snails—Porterville, California (gift).

DEPARTMENT OF ZOOLOGY—ACCESSIONS (Continued)

GROESBECK, MRS. M. J., Porterville, California: 9 fresh-water shells—Porterville, California (gift).

GUNTER, GORDON, Rockport, Texas: 1 coral snake, 340 larval mullets—Arkansas County, Texas (gift).

HAAS, DR. FRITZ, Chicago: 1 American merganser, 20 fresh-water shells—Chicago; 10 springtails—Maine (gift).

HANSON, HAROLD, Madison, Wisconsin: 1 skunk—Prairie du Sac, Wisconsin (gift).

HARPER, FRANCIS, Swarthmore, Pennsylvania: 12 frogs—various localities (exchange).

HEATH, DR. JAMES P., Kent, Ohio: 3 bats—Isle of Pines, Cuba (gift).

HERRE, DR. ALBERT W., Stanford University, California: 2 snakes—India (gift).

HERTIG, DR. MARSHALL, Lima, Peru: 7 mice—near Lima, Peru (gift).

HIGGINS, HAROLD, Salt Lake City, Utah: 19 lizards, 1 snake—Samoa (gift).

HOBGOOD, DR. W. C., Monticello, Arkansas: 4 salamanders, 11 frogs, 26 snakes, 7 lizards, 7 turtles, 10 fishes—Tennessee and Arkansas (gift).

HUBRICHT, DR. LESLIE, St. Louis, Missouri: 5 salamanders—Missouri (gift).

HUFF, DR. CLAY G., Chicago: 1 horned lizard skull—Michoacan, Mexico (gift).

INDIANA STATE DEPARTMENT OF FISH AND GAME, Knox, Indiana: 3 tadpoles—Starke County, Indiana (gift).

INSTITUTO DE LA SALLE, Bogotá, Colombia: 6 fishes—Villavicencio, Colombia (gift).

IRELAND, MISS ELISABETH, Thomasville, Georgia: 1 scorpion, 1 millipede—near Thomasville, Georgia (gift).

KAUFFELD, CARL F., Staten Island, New York: 2 living rattlesnakes—New York and New Jersey (gift).

KEMP, DONALD M., Hawthorne, Nevada: 4 lizards, a rattlesnake—Mineral County, Nevada (gift).

LAMB, GEORGE N., Chicago: 1 marine shell—Florida (gift).

LAMBERT, RONALD J., Zion, Illinois: 1 snake—Wisconsin (gift).

LAW, CAPTAIN S. R., Camp Haan, California: 2 snakes (gift).

LILJEBLAD, EMIL, Villa Park, Illinois: 2 snout-beetles—Whitehall, Michigan (gift).

LINCOLN PARK ZOO, Chicago: 1 orangutan, 4 birds, 2 crocodiles—various localities (gift).

LINCOLN SCHOOL, Highland Park, Illinois: 4 birds—Highland Park, Illinois (gift).

LOHR, MAJOR LENOX R., Evanston, Illinois: 1 marmoset—South America (gift).

LOS ANGELES COUNTY MUSEUM OF HISTORY, SCIENCE AND ART, Los Angeles, California: 14 bats—California (exchange).

MACARTHUR, KENNETH, Milwaukee, Wisconsin: 11 louse-flies—various localities (exchange).

MCCORMICK, LEANDER J., Chicago: 2 fishes—Cuba (gift).

MCELVARE, ROWLAND G., New York: 8 moths—California (gift).

MALDONADO, DR. ANGEL, Lima, Peru: 20 fishes, 34 insects and allies, 75 fresh-water invertebrates—Peru (gift).

MAY, JAMES F., Manitou Springs, Colorado: 9 insects—various localities (exchange).

MILLAR, JOHN R., Chicago: 1 millipede—Tennessee (gift).

MUSEO ARGENTINO DE CIENCIAS NATURALES, Buenos Aires, Argentina: 300 land and fresh-water shells—South America (exchange).

MUSEO NACIONAL DE HISTORIA, Mexico City, Mexico: 1 volcano rabbit—Mexico (exchange).

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: 1 bat—Mexico; 3 golden moles—South Africa; 1 bat—Trinidad; 72 beetles—various localities (exchange); 300 tiger beetles—various localities (gift).

NECKER, WALTER L., Chicago: 12 salamanders, 67 frogs, 42 lizards, 25 snakes, 3 turtles—Mexico and United States (exchange).

OSGOOD, DR. WILFRED H., Chicago: 55 mammal skins and skulls and 3 skeletons, 2 birds—Arizona (gift).

PATTERSON, BRYAN, Chicago: 161 insects and allies, 30 land shells and crustaceans—Adams County, Illinois (gift).

PATTON, ROBERT, Chicago: 1 woodchuck—Elmwood, Illinois (gift).

DEPARTMENT OF ZOOLOGY—ACCESSIONS (Continued)

PEARSALL, GORDON, Maywood, Illinois: 1 fox squirrel—Chicago; 1 mink—Elk Grove, Illinois; 1 ribbon snake—Dune Acres, Indiana (gift).

PETERSON, DR. J. O., Chicago: 1 snake—Mille Lacs County, Minnesota (gift).

PHILIPPINE BUREAU OF SCIENCE, Manila, Philippine Islands: 4 snakes—Philippine Islands (gift).

POPE, CLIFFORD C., AND FAMILY, Winnetka, Illinois: 1 frog, 17 lizards, 7 snakes, 2 turtles—Mason County, Illinois (gift).

PORTER, DR. CARLOS E., Santiago, Chile: 15 beetles—Temuco, Chile (exchange).

QUINN, JAMES H., South Holland, Illinois: 1 mole skeleton—Ainsworth, Nebraska (gift).

QUINTERO, LUIS CABRER, Havana, Cuba: 11 land shells—Havana, Cuba (gift).

RAY, EUGENE, Chicago: 1 beetle—Miller, Indiana; 1 ant lion, 1 spider—Decatur, Michigan (gift).

REED, CLYDE T., Gregory, Texas: 32 mammal skulls—Texas (exchange); 1 infant human skeleton, 2 armadillo pelvises, 74 salamanders, 3 toads, 1 soft-shelled turtle, 419 fishes—Texas (gift).

ROWAN, DR. WILLIAM, Edmonton, Canada: 8 frogs—Alberta, Canada (exchange).

RUECKERT, ARTHUR G., Chicago: 1 African love bird (gift).

SANDERSON, IVAN T., Belize, British Honduras: 25 ricinulids—Yucatan (exchange).

SCHMIDT, KARL P., Homewood, Illinois: 54 insects and allies—Utah and Wyoming; 10 land snails—Utah (gift).

SCHREIBER, JACK, Chicago: 16 bird lice—Illinois (gift).

SEARLS, ROBERT S., Odessa, Texas: 1 sand cricket—western Texas (gift).

SEEVERS, DR. CHARLES H., Chicago: 1,067 insects—various localities (exchange); 840 insects and allies—various localities (gift).

SHEDD AQUARIUM, JOHN G., Chicago: 1 carpet shark—Australia; 1 fish—California (gift).

SHOUBA, JAMES R., Chicago: 1 cicada—Chicago (gift).

SMITH, DR. C. S., San Marcos, Texas: 3 salamanders—Texas (gift).

STAFFORD, GRANT, Chesterton, Indiana: 1 short-tailed shrew—Chesterton, Indiana (gift).

STANFORD UNIVERSITY, California: 2 toads—California (gift).

THOMPSON, ROY, Zion, Illinois: 1 spider—Merrimac, Wisconsin (gift).

TORRE, LUIS DE LA, Highland Park, Illinois: 1 weasel—Lake County, Illinois (gift).

TRAIN, MIDDLETON, Trinidad: 1 spider—Trinidad (gift).

UNITED STATES DIVISION OF FISH AND WILDLIFE SERVICE, Washington, D.C.: 2 coyote skins (loan).

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 4 crustaceans (exchange).

UNIVERSITY OF CALIFORNIA, MUSEUM OF VERTEBRATE ZOOLOGY, Berkeley, California: 7 kangaroo rats—Nevada (gift).

UNIVERSITY OF KANSAS, MUSEUM OF VERTEBRATE PALEONTOLOGY, Lawrence, Kansas: 7 mammal skeletons, 1 lizard skeleton—Nebraska (exchange).

VOGT, WILLIAM, Lima, Peru: 1 spider, 188 marine lower invertebrates—Peru (gift).

WALTON, MRS. CLARA K., Highland Park, Illinois: 5 birds—Highland Park, Illinois; 2 young birds—Clintonville, Wisconsin (gift).

WEBB, WALTER F., Rochester, New York: 142 land shells—Philippine Islands (gift).

WENZEL, RUPERT L., Chicago: 260 beetles—various localities (gift).

WILLIM, PEDRO, Colonia Nueva Ilaha, Paraguay: 169 insects—Paraguay (gift).

WOODS, LOREN P., Naperville, Illinois: 34 salamander larvae, 2 frogs—Posey County, Indiana; 10 ants—Naperville, Illinois (gift).

WYATT, ALEX K., Chicago: 5 moths—Elgin, Illinois; 13 insects—Vilas County, Wisconsin (gift).

RAYMOND FOUNDATION—ACCESSIONS

BAYALIS, JOHN, Chicago: 6 natural color slides (gift).

FIELD MUSEUM OF NATURAL HISTORY:
Taken by Colin C. Sanborn on Field Museum Expedition to Peru (1941-42): 131 natural color slides.

Made by Division of Photography: 109 slides.

GRONEMANN, MRS. PEARLE, Elgin, Illinois: 159 slides (purchase).

HAMBLETON, ELIZABETH, Chicago: 2 natural color slides (gift).

JANECEK, JOHN, Chicago: 1 natural color slide (gift).

MOYER, JOHN, Chicago: 25 natural color slides (gift).

OSGOOD, DR. WILFRED H., Chicago: 39 slides (gift).

SANTA FE RAILWAY: 2 slide cabinets (gift).

THOMSON, CARMAN, Chicago: 4 natural color slides (gift).

TURTOX BIOLOGICAL SUPPLY HOUSE, Chicago: 347 natural color slides (gift).

MISCELLANEOUS: 44 natural color slides, 15 film strips on China (purchase).

DIVISION OF PHOTOGRAPHY—ACCESSIONS

FIELD MUSEUM OF NATURAL HISTORY:

Made by Division of Photography: 10,390 prints, 1,368 negatives, 286 enlargements, 329 lantern slides, 13 transparent labels, 8 transparencies, and 62 color films.

Made by Colin C. Sanborn: 16 general views in Peru, made in 1941.

HELLER, EDMUND, ESTATE OF, San Francisco, California: 402 negatives of general views in central Africa.

WINTER, F. E., Madison, Wisconsin: 332 negatives of general views and landscapes, made on Field Museum expedition to Texas in 1937.

LIBRARY—ACCESSIONS

List of Donors of Books

INSTITUTIONS

Agfa Ansco, Binghamton, New York.

Americana Corporation, New York.

Australian National Publicity Association, Los Angeles, California.

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Baker-Hunt Foundation, Covington, Kentucky.

Bureau d'Ethnologie, Port-au-Prince, Haiti.

Carnegie Corporation, New York.

Carnegie Institution of Washington, Washington, D.C.

Comité Nacional, Buenos Aires, Argentina.

Comité pro Truismo de Yucatan Mérida, Yucatan, Mexico.

Council of Scientific Societies, Buffalo, New York.

Fessenden National Memorial Association, Manteo (Roanoke Island), North Carolina.

Ford Motor Company, Dearborn, Michigan.

Instituto Central de Fomento Economico, Bahia, Brazil.

Library of Congress, Washington, D.C.

Miami University, Coral Gables, Florida.

National Association of Manufacturers, New York.

National Education Association, Washington, D.C.

North Dakota Agricultural Experiment Station, Fargo, North Dakota.

North Park College, Chicago.

Philadelphia Quartz Company, Philadelphia, Pennsylvania.

Pittsburgh Plate Glass Company, Pittsburgh, Pennsylvania.

Royal College of Surgeons, London, England.

Saint Joseph's Museum, St. Joseph, Missouri.

Santa Barbara Botanic Garden, Santa Barbara, California.

Secretaria de Agricultura y Fomento de Fitosanitario, Jacinto, Mexico.

Toledo Museum of Art, Toledo, Ohio.

University College, Hull, England.

William and Mary College and Commission of Fisheries, Williamsburg, Virginia.

LIBRARY—ACCESSIONS (Continued)

INDIVIDUALS

- Barnes, Claude T., Salt Lake City, Utah.
 Bay, Dr. J. Christian, Chicago.
 Beecher, William J., Chicago.
 Benesh, Benard, Chicago.
 Blake, S. F., Washington, D.C.
 Brooks, Allan, Okanagan Landing, British Columbia.
 Caso, Dr. Alfonso, Mexico City, Mexico.
 Cawston, F. Gordon, Durban, Natal.
 Collier, Donald, Chicago.
 Conover, Boardman, Chicago.
 Corning, William H., Chicago.
 Cromwell, James H. R., Washington, D.C.
 Cuatrecasas, Dr. José, Bogotá, Colombia.
 Cuces, Loraida, Caracas, Venezuela.
 Dalquest, Walter W., Washington, D.C.
 Datta, R. M., Dum Dum, India.
 Davis, D. Dwight, Chicago.
 Devincenze, Dr. Garibaldi, Montevideo, Uruguay.
 Downs, Robert B., New York.
 Dybas, Henry S., Chicago.
 Elenbogen, Miss Celia, Chicago.
 Essig, E. O., Berkeley, California.
 Field, Dr. Henry, Washington, D.C.
 Field, Stanley, Chicago.
 Flores, Teodoro, Mexico City, Mexico.
 Ford, Robert N., State College, Mississippi.
 Foster, George M., Jr., Berkeley, California.
 Gerhard, William J., Chicago.
 Givler, J. P., Greensboro, North Carolina.
 Gladstone, Sir Hugh, Dumfriesshire, England.
 Goodwin, George C., New York.
 Gregg, Colonel Clifford C., Chicago.
 Haas, Dr. Fritz, Chicago.
 Haas, Dr. Otto, New York.
 Hambleton, Miss Elizabeth, Chicago.
 Hewes, Henry B., Berkeley, California.
 Heyser, Frank L., Chicago.
 Honigsheim, Dr. Paul, East Lansing, Michigan.
 Hubeny, Mrs. M. J., Chicago.
 Jellison, William L., Hamilton, Montana.
 Kleijkamp, Jan, New York.
 Lanham, F. M., Pretoria, Transvaal.
 La Paz, Lincoln, Columbus, Ohio.
 Liljeblad, Emil, Villa Park, Illinois.
 Littell, John McGregor, South Orange, New Jersey.
 Lundell, Cyrus L., Ann Arbor, Michigan.
 McComas, Miss Edith R., Roland Park, Maryland.
 Malan, B. D., Johannesburg, Transvaal.
 Martin, Dr. Paul S., Chicago.
 Meyer, Samuel L., Knoxville, Kentucky.
 Miller, Professor D. F., Columbus, Ohio.
 Moore, Major D. Merrill, Denver, Colorado.
 Moseley, Edwin L., Bowling Green, Ohio.
 Nabours, Robert K., Manhattan, Kansas.
 Nichols, Henry W., Chicago.
 Nylander, Olaf Olsson, Caribou, Maine.
 Osgood, Dr. Wilfred H., Chicago.
 Oyarzum, Dr. Aureliano, Santiago, Chile.
 Pabst, Miss Marie, Chicago.
 Paine, Gustavus Swift, New York.
 Patterson, Bryan, Chicago.
 Phelps, William H., Caracas, Venezuela.
 Pope, Clifford H., Winnetka, Illinois.
 Quimby, George I., Jr., Chicago.
 Riggs, Elmer S., Lawrence, Kansas.
 Ross, Miss Lillian, Chicago.
 Rubin de La Bordolla, Dr. Daniel F., Mexico City, Mexico.
 Russell, William H., Bethlehem, Connecticut.
 Sanborn, Captain C. C., Chicago.
 Sarkar, Professor Benoy Kumar, Calcutta, India.

LIBRARY—ACCESSIONS (*Continued*)

- | | |
|--|--|
| Schmidt, Karl P., Chicago. | Torre-Bueno, J. R. de la, Tucson, Arizona. |
| Schulman, Edmund, Tucson, Arizona. | Trowbridge, Miss Minnie S., Tucson, Arizona. |
| Seevers, Dr. Charles, Chicago. | Vincent, Miss Edith, Chicago. |
| Sherff, Dr. Earl E., Chicago. | Walch, Mrs. F. C., Clintonville, Wisconsin. |
| Smith, Solomon A., Chicago. | Weed, Alfred C., Chicago. |
| Standley, Paul C., Chicago. | Wenzel, Rupert L., Chicago. |
| Stead, David R., Sydney, Australia. | Wilbur, Dr. C. Martin, Chicago. |
| Strong, Dr. R. M., Chicago. | Willis, Bailey, Stanford, California. |
| Strong, Dr. William D., New York. | Woods, Miss Josephine H., New York. |
| Thompson, J. Eric, Harvard, Massachusetts. | |

ARTICLES OF INCORPORATION

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H.

Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE OF NAME

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

AMENDED BY-LAWS

DECEMBER, 1941

ARTICLE I

MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board, become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the

period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures or entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings

and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation except as hereinafter provided. He shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

SECTION 2. The securities and muniments of title belonging to the corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of Field Museum of Natural History, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust & Savings Bank of Chicago shall be Custodian of "The N. W. Harris Public School Extension of Field Museum" fund. The bank shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations

of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of six members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other permanent funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to invest, sell, and reinvest funds, subject to the approval of the Board.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested

to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws may be amended at any regular meeting of the Board of Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.

FOUNDER

Marshall Field*

BENEFACTORS

Those who have contributed \$100,000 or more to the Museum

Ayer, Edward E.*	Harris, Albert W.	Raymond, James Nelson*
Buckingham, Miss Kate S.*	Harris, Norman W.*	Ryerson, Martin A.*
Crane, Cornelius	Higinbotham, Harlow N.*	Ryerson, Mrs. Martin A.*
Crane, R. T., Jr.*	Kelley, William V.*	Simpson, James*
Field, Joseph N.*	Pullman, George M.*	Smith, Mrs. Frances Gaylord*
Field, Marshall	Rawson, Frederick H.*	Smith, George T.*
Field, Stanley	Raymond, Mrs. Anna Louise	Sturges, Mrs. Mary D.*
Graham, Ernest R.*		Suarez, Mrs. Diego

* DECEASED

HONORARY MEMBERS

Those who have rendered eminent service to Science

Cutting, C. Suydam	Ludwig, H. R. H. Gustaf Adolf, Crown Prince of Sweden	Sargent, Homer E.
Field, Marshall	McCormick, Stanley	Sprague, Albert A.
Field, Stanley	Roosevelt, Kermit	Suarez, Mrs. Diego
Harris, Albert W.	Roosevelt, Theodore	Vernay, Arthur S.

PATRONS

Those who have rendered eminent service to the Museum

Calderini, Charles J.	Ellsworth, Duncan S.	Roosevelt, Kermit
Chadbourne, Mrs. Emily Crane	Field, Mrs. Stanley	Roosevelt, Theodore
Chancellor, Philip M.	Hack, Frederick C.	Sargent, Homer E.
Cherrie, George K.	Hancock, G. Allan	Sprague, Albert A.
Collins, Alfred M.	Kennedy, Vernon Shaw	Straus, Mrs. Oscar
Conover, Boardman	Knight, Charles R.	Strawn, Silas H.
Cutting, C. Suydam	Moore, Mrs. William H.	Suarez, Mrs. Diego
Day, Lee Garnett		Vernay, Arthur S.
		White, Harold A.

DECEASED, 1942
Probst, Edward

CORRESPONDING MEMBERS

Scientists or patrons of science, residing in foreign countries, who have rendered eminent service to the Museum

Breuil, Abbé Henri	Hochreutiner, Dr. B. P.	Keissler, Dr. Karl
Christensen, Dr. Carl	Georges	
Diels, Dr. Ludwig	Humbert, Professor	Keith, Professor Sir
	Henri	Arthur

CONTRIBUTORS

Those who have contributed \$1,000 to \$100,000 to the Museum in money or materials

<i>\$75,000 to \$100,000</i>		
Chancellor, Philip M.	Conover, Boardman	Doane, J. W.*
	Cummings, R. F.*	Field, Dr. Henry
	Cutting, C. Suydam	Fuller, William A.*
<i>\$50,000 to \$75,000</i>		
Keep, Chauncey*	Everard, R. T.*	Graves, George Coe, II*
	Gunsaulus, Dr. F. W.*	Harris, Hayden B.
Rosenwald, Mrs.	Insull, Samuel*	Harris, Norman Dwight
Augusta N.*		Harris, Mrs. Norman W.*
	Laufer, Dr. Berthold*	Hutchinson, C. L.*
	Lufkin, Wallace W.	Keith, Edson*
<i>\$25,000 to \$50,000</i>		
Adams, Mrs. Edith	Mandel, Leon	Langtry, J. C.
Almy*	McCormick, Cyrus	MacLean, Mrs. M.
	(Estate)	Haddon
Blackstone, Mrs.	McCormick, Stanley	Moore, Mrs. William H.
Timothy B.*	Mitchell, John J.*	
Coats, John*	Reese, Lewis*	Payne, John Barton*
Crane, Charles R.*	Robb, Mrs. George W.*	Pearsons, D. K.*
Crane, Mrs. R. T., Jr.	Rockefeller Foundation,	Porter, H. H.*
	The	
Field, Mrs. Stanley	Sargent, Homer E.	Ream, Norman B.*
Jones, Arthur B.*	Schweppe, Mrs.	Revell, Alexander H.*
	Charles H.*	Salie, Prince M. U. M.
Murphy, Walter P.*	Straus, Mrs. Oscar	Sprague, A. A.*
Porter, George F.*	Strong, Walter A.*	Storey, William Benson*
Rosenwald, Julius*	Wrigley, William, Jr.*	Strawn, Silas H.
Vernay, Arthur S.		Thorne, Bruce
White, Harold A.		Tree, Lambert*
	<i>\$5,000 to \$10,000</i>	Valentine, Louis L.*
	Adams, George E.*	
	Adams, Milward*	<i>\$1,000 to \$5,000</i>
	American Friends of	Avery, Miss Clara A.*
	China	Ayer, Mrs. Edward E.*
	Avery, Sewell L.	
	Bartlett, A. C.*	Barrett, Samuel E.*
	Bishop, Heber (Estate)	Bensabott, R., Inc.
	Borland, Mrs. John Jay*	Bishop, Dr. Louis B.
	Crane, R. T.*	Blair, Watson F.*

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 Ericson, Mrs. Chester F.
 Ericsson, Clarence
 Ericsson, Dewey A.
 Ericsson, Henry
 Ericsson, Walter H.
 Ernst, Mrs. Leo
 Erskine, Albert DeWolf
 EtsHokin, Louis
 Etten, Henry C.
 Eustice, Alfred L.
 Evans, Miss Anna B.
 Evans, Mrs. David
 Evans, David J.
 Evans, Eliot H.
 Evans, Evan A.
 Ewen, William R. T.
 Fabian, Francis G.
 Fabrice, Edward H.
 Fabry, Herman
 Fackt, Mrs. George P.
 Fader, A. L.
 Faget, James E.
 Faherty, Roger
 Faithorn, Walter E.
 Falk, Miss Amy
 Farnham, Mrs. Harry J.
 Farrell, Mrs. B. J.
 Faulkner, Charles J., Jr.
 Faulkner, Miss Elizabeth
 Faurot, Henry
 Faurot, Henry, Jr.
 Fay, Miss Agnes M.
 Fecke, Mrs. Frank J.
 Feigenheimer, Herman
 Feiwell, Morris E.
 Felix, Benjamin B.
 Fellows, William K.
 Felsenthal, Edward George
 Feltman, Charles H.
 Fennekohl, Mrs. Arthur C.
 Fergus, Robert C.
 Fernald, Robert W.
 Ferry, Mrs. Frank F.
 Fetcher, Edwin S.
 Fetzer, Wade
 Filkins, A. J.
 Findlay, Mrs. Roderick
 Fineman, Oscar
 Finley, Max H.
 Finnegan, Richard J.
 Finnerud, Dr. Clark W.
 Fischel, Frederic A.
 Fish, Mrs. Helen S.
 Fishbein, Dr. Morris
 Fisher, Mrs. Edward Metcalf
 Fisher, George F.
 Fisher, Harry M.
 Fitzpatrick, Mrs. John A.
 Flavin, Edwin F.
 Fleming, Mrs. Joseph B.
 Flexner, Washington
 Flood, Walter H.
 Florsheim, Harold M.
 Florsheim, Irving S.
 Florsheim, Mrs. Milton S.
 Flosdorf, Mrs. A. E.
 Folonie, Mrs. Robert J.
 Folsom, Mrs. Richard S.
 Forch, Mrs. John L., Jr.
 Ford, Mrs. Willis Roland
 Foreman, Mrs. Alfred K.
 Foreman, Mrs. E. G.
 Foreman, Edwin G., Jr.
 Foreman, Harold E.
 Forgan, James B., Jr.
 Forgan, Mrs. J. Russell
 Forgan, Robert D.
 Forman, Charles
 Forrester, Mrs. W. W.
 Forstall, James J.
 Fortune, Miss Joanna
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 Foster, Volney
 Fowler, Miss Elizabeth

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- Fox, Charles E.
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 Frank, Arthur A.
 Frank, Dr. Ira
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 Frankenstein, William B.
 Frankenthal, Dr.
 Lester E., Jr.
 Frazer, Mrs. George E.
 Freedman, Dr. I. Val
 Freeland, Dr. M. R.
 Freeman, Charles Y.
 Freer, Archibald E.
 Freiler, Abraham J.
 French, Dudley K.
 Frenier, A. B.
 Freudenthal, G. S.
 Frey, Charles Daniel
 Freyn, Henry J.
 Fridstein, Meyer
 Friedlander, Jacob
 Friedlich, Mrs. Herbert
 Friedman, Mrs. Isaac K.
 Friend, Mrs. Henry K.
 Friestedt, Arthur A.
 Frost, Mrs. Charles
 Sumner
 Fuller, Mrs. Gretta
 Patterson
 Fuller, Judson M.
 Furry, William S.
 Furst, Eduard A.

 Gabathuler, Miss Juanita
 Gabriel, Adam
 Gaertner, William
 Gale, G. Whittier
 Gall, Charles H.
 Gall, Harry T.
 Gallagher, Mrs. John J.
 Gallup, Rockwell
 Galt, Mrs. A. T.
 Gamble, D. E.
 Gamble, James A.
 Gann, David B.
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 Garcia, José
 Garden, Hugh M. G.
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 Gardner, Addison L.
 Gardner, Addison L., Jr.
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 Gardner, Mrs. James P.
 Garen, Joseph F.
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 Gates, Mrs. L. F.
 Gawne, Miss Clara V.
 Gay, Rev. A. Royal
 Gaylord, Duane W.

 Gear, H. B.
 Gehl, Dr. W. H.
 Gehrman, Felix
 Geiger, Alfred B.
 Geiling, Dr. E. M. K.
 Gellert, Donald N.
 Gentz, Miss Margaret
 Nina
 George, Mrs. Albert B.
 Georgs, Fred W.
 Gerber, Max
 Gerding, R. W.
 Gerngross, Mrs. Leo
 Gettelman, Mrs.
 Sidney H.
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 Getzoff, E. B.
 Gibbs, Richard F.
 Gibson, Dr. Stanley
 Gidwitz, Alan K.
 Gielow, Walter C.
 Gifford, Mrs.
 Frederick C.
 Gilbert, Miss Clara C.
 Gilchrist, Mrs. John F.
 Gilchrist, Mrs.
 William Albert
 Giles, Carl C.
 Giles, Mrs. Guy H.
 Gillette, Mrs. Ellen D.
 Gillson, Louis K.
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 Goldstein, Nathan S.
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 Goodman, Benedict K.
 Goodman, Mrs. Milton F.
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 Norton
 Goodwin, George S.
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 Gordon, Harold J.
 Gordon, Dr. Richard J.
 Gordon, Mrs. Robert D.

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 Graff, Oscar C.
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 Grawoig, Allen
 Gray, Dr. Earle
 Gray, Edward
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 Pomeroy
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 Griffith, Mrs. William
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 Gronkowski, Rev. C. I.
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 Groot, Lawrence A.
 Gross, Henry R.
 Grossman, Frank I.
 Grotenhuis, Mrs.
 William J.
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 Grulee, Lowry K.
 Grunow, Mrs. William C.
 Guenzel, Louis
 Guest, Ward E.
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 Gwinn, William R.

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Hardinge, Franklin
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Haynie, Miss Rachel W.
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Heaton, Herman C.
Heck, John
Hedberg, Henry E.
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Heiman, Marcus
Heine, Mrs. Albert
Heineman, Oscar
Heinzelman, Karl
Heinzen, Mrs. Carl
Heisler, Francis
Hejna, Joseph F.
Heldmaier, Miss Marie
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Heller, Albert
Heller, John A.
Heller, Mrs. Walter E.
Hellman, George A.
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Henderson, Thomas B. G.
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Henley, Dr. Eugene H.
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Abraham J.
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Henry, Otto
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Raymond S.
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Herrick, Miss Louise
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Higinbotham, Harlow D.
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Hill, William C.
Hill, William E.
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Hillebrecht, Herbert E.
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Hinsberg, Stanley K.
Hirsch, Jacob H.
Histed, J. Roland
Hixon, Mrs. Frank P.
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Hempstead
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Hoier, William V.
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Holmes, J. A.
Holmes, Mrs. Maud G.
Holmes, William
Holmes, William N.
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Hoover, Mrs. Fred W.
Hoover, H. Earl
Hoover, Ray P.
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Dodge, Jr.
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Horner, Mrs.
Maurice L., Jr.
Hornung, Joseph J.
Horst, Curt A.
Horton, George T.
Horton, Hiram T.
Horton, Horace B.
Horween, Arnold
Hosbein, Louis H.
Hottinger, Adolph
Howard, Willis G.
Howe, Clinton W.
Howe, Mrs. Pierce
Lyman
Howe, Warren D.
Howe, William G.
Howell, Albert S.
Howell, William

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 Hubbard, George W.
 Huber, Dr. Harry Lee
 Hudson, Walter L.
 Huey, Mrs. A. S.
 Huff, Thomas A.
 Hufty, Mrs. F. P.
 Huggins, Dr. Ben H.
 Hughes, George A.
 Hughes, John E.
 Hughes, John W.
 Hulbert, Mrs. Milan H.
 Hume, John T.
 Humphrey, H. K.
 Huncke, Herbert S.
 Huncke, Oswald W.
 Hunter, Samuel M.
 Hurley, Edward N., Jr.
 Huston, Ward T.
 Huszagh, R. LeRoy
 Huszagh, Ralph D.
 Hutchinson, Foye P.
 Hutchinson, Samuel S.
 Hyatt, R. C.
- Ickes, Raymond
 Idelman, Bernard
 Ilg, Robert A.
 Illich, George M., Jr.
 Ingalls, Allin K.
 Inlander, Samuel
 Irons, Dr. Ernest E.
 Isaacs, Charles W., Jr.
 Isham, Henry P.
 Ives, Clifford E.
- Jackson, Allan
 Jackson, Archer L.
 Jackson, Mrs. Arthur S.
 Jackson, Miss Laura E.
 Jacobi, Miss Emily C.
 Jacobs, Hyman A.
 Jacobs, Julius
 Jacobs, Louis G.
 Jacobs, Walter H.
 Jacobs, Whipple
 Jacobson, Raphael
 Jaffray, Mrs. David S.
 James, Edward P.
 James, William R.
 Jameson, Clarence W.
 Janusch, Fred W.
 Jarchow, Mrs. C. E.
 Jarchow, Charles C.
 Jarratt, Mrs. R. J.
 Jeffries, F. L.
 Jenkins, David F. D.
 Jenkins, Mrs. John E.
- Jenkinson, Mrs.
 Arthur Gilbert
 Jennings, Ode D.
 Jennings, Mrs. Rosa V.
 Jerger, Wilbur Joseph
 Jetzinger, David
 Jirka, Dr. Frank J.
 Jirka, Dr. Robert H.
 John, Dr. Findley D.
 Johnson, Dr. Adelaide
 Johnson, Alvin O.
 Johnson, Arthur L.
 Johnson, H. C.
 Johnson, Mrs. Harley
 Alden
 Johnson, Joseph M.
 Johnson, Nels E.
 Johnson, Mrs. O. W.
 Johnson, Olaf B.
 Johnson, Phillip C.
 Johnston, Arthur C.
 Johnston, Edward R.
 Johnston, Mrs. Hubert
 McBean
 Johnston, Mrs. M. L.
 Jones, Albert G.
 Jones, James B.
 Jones, Dr. Margaret M.
 Jones, Melvin
 Jones, Miss Susan E.
 Joseph, Mrs. Jacob G.
 Joseph, Louis L.
 Joy, Guy A.
 Joyce, Joseph
 Judson, Clay
 Juergens, H. Paul
 Julien, Victor R.
 Junkunc, Stephen
- Kaercher, A. W.
 Kahn, J. Kesner
 Kahn, Louis
 Kaine, James B.
 Kane, Jerome M.
 Kanter, Jerome J.
 Kaplan, Nathan D.
 Karcher, Mrs. Leonard D.
 Karpen, Michael
 Kasch, Frederick M.
 Kaspar, Otto
 Katz, Mrs. Sidney L.
 Katzenstein, Mrs.
 George P.
 Katzin, Frank
 Kauffman, Mrs. R. K.
 Kauffmann, Alfred
 Kaufmann, Dr.
 Gustav L.
 Kavanagh, Clarence H.
 Kavanagh, Maurice F.
 Kay, Mrs. Marie E.
 Keefe, Mrs. George I.
- Keehn, George W.
 Keene, Mrs. Joseph
 Keeney, Albert F.
 Kehl, Robert Joseph
 Keith, Stanley
 Keith, Mrs. Stanley
 Kelker, Rudolph F., Jr.
 Kellogg, John L.
 Kelly, Edward T.
 Kelly, Mrs. Haven Core
 Kemp, Mrs. E. M.
 Kemper, Hathaway G.
 Kempner, Harry B.
 Kempner, Stan
 Kendall, Mrs. Virginia H.
 Kendrick, John F.
 Kennedy, Mrs. E. J.
 Kennedy, Lesley
 Kennelly, Martin H.
 Kent, Dr. O. B.
 Keogh, Gordon E.
 Kern, H. A.
 Kern, Trude
 Kersey, Glen B.
 Kerwin, Edward M.
 Kesner, Jacob L.
 Kestnbaum, Meyer
 Kettering, Mrs.
 Eugene W.
 Kiessling, Mrs. Charles S.
 Kile, Miss Jessie J.
 Kimball, William W.
 Kimbark, John R.
 King, Clinton B.
 King, Joseph H.
 Kingman, Mrs. Arthur G.
 Kinsey, Frank
 Kinsey, Robert S.
 Kintzel, Richard
 Kirkland, Mrs.
 Weymouth
 Kitchell, Howell W.
 Kittredge, R. J.
 Kitzelman, Otto
 Klein, Henry A.
 Klein, Mrs. Samuel
 Kleinpell, Dr. Henry H.
 Kleist, Mrs. Harry
 Kleppinger, William H.
 Kleutgen, Dr. Arthur C.
 Kline, Sol
 Klinetop, Mrs. Charles W.
 Knopf, Andrew J.
 Knott, Mrs. Stephen R.
 Knox, Harry S.
 Knutson, George H.
 Koch, Mrs. Fred J.
 Koch, Raymond J.
 Kochs, August
 Kochs, Mrs. Robert T.
 Kohl, Mrs. Caroline L.
 Kohler, Eric L.

ASSOCIATE MEMBERS (Continued)

- Kohlsaat, Edward C.
 Komiss, David S.
 Konsberg, Alvin V.
 Kopf, Miss Isabel
 Koppenaal, Dr. Eliza-
 beth Thompson
 Kosobud, William F.
 Kotal, John A.
 Kotin, George N.
 Koucky, Dr. J. D.
 Kovac, Stefan
 Kraber, Mrs. Fredericka
 Kraft, C. H.
 Kraft, James L.
 Kraft, Norman
 Kralovec, Emil G.
 Kralovec, Mrs. Otto J.
 Kramer, Leroy
 Krais, Peter J.
 Kraus, Samuel B.
 Krause, John J.
 Kretschmer, Dr.
 Herman L.
 Kretschmer, Herman
 L., Jr.
 Kropff, C. G.
 Krost, Dr. Gerard N.
 Krueger, Leopold A.
 Krutckoff, Charles
 Kuehn, A. L.
 Kuh, Mrs. Edwin J., Jr.
 Kuhl, Harry J.
 Kuhn, Frederick T.
 Kuhn, Dr. Hedwig S.
 Kunka, Bernard J.
 Kunstadter, Albert
 Kunstadter, Sigmund W.
 Kurfess, John Fredric
 Kurtzon, Morris

 Lacey, Miss Edith M.
 LaChance, Mrs.
 Leander H.
 Laffin, Mrs. Louis E.
 Laffin, Louis E., Jr.
 Lampert, Wilson W.
 Lanahan, Mrs. M. J.
 Landry, Alvar A.
 Lane, F. Howard
 Lane, Ray E.
 Lane, Wallace R.
 Lang, Edward J.
 Lange, Mrs. August
 Langenbach, Mrs. Alice R.
 Langhorne, George
 Taylor
 Langworthy, Benjamin
 Franklin
 Lanman, E. B.
 Lansinger, Mrs. John M.
 Larimer, Howard S.
 Larson, Mrs. George E.

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 Lasker, Albert D.
 Lau, Max
 Lauren, Newton B.
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 Lautmann, Herbert M.
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 Lavidge, Arthur W.
 Law, Mrs. Robert O.
 Lawless, Dr. Theodore K.
 Lawson, David A.
 Laylander, O. J.
 Leahy, Thomas F.
 Leavell, James R.
 Leavens, Theodore
 Leavitt, Mrs. Wellington
 Lebold, Foreman N.
 Lebold, Samuel N.
 Lebolt, John Michael
 Lederer, Dr. Francis L.
 Lee, David Arthur
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 Lefens, Miss Katherine J.
 Lefens, Walter C.
 Leichenko, Peter M.
 Leight, Mrs. Albert E.
 Leland, Miss Alice J.
 Leland, Mrs. Roscoe G.
 LeMoon, A. R.
 Lennon, George W.
 Lenz, J. Mayo
 Leonard, Arthur G.
 Leonard, Arthur T.
 Leslie, Dr. Eleanor I.
 Letts, Mrs. Frank C.
 Leverone, Louis E.
 Levinson, Mrs. Salmon O.
 Levis, Mrs. Albert Cotter
 Levitan, Benjamin
 Levitetz, Nathan
 Levy, Alexander M.
 Levy, Arthur G.
 Lewis, Mrs. Ellis R.
 Lewy, Dr. Alfred
 Liebman, A. J.
 Ligman, Rev. Thaddeus
 Lillie, Frank R.
 Lindahl, Mrs. Edward J.
 Linden, John A.
 Lindheimer, B. F.
 Lindholm, Charles V.
 Lingle, Bowman C.
 Linton, Ben B.
 Lipman, Robert R.
 Liss, Samuel
 Little, Mrs. E. H.
 Littler, Harry E., Jr.
 Livingston, Julian M.
 Livingston, Mrs.
 Milton L.
 Llewellyn, Paul
 Lloyd, William Bross

 Lobdell, Mrs. Edwin L.
 Lockwood, W. S.
 Loeb, Mrs. A. H.
 Loeb, Hamilton M.
 Loeb, Jacob M.
 Loeb, Leo A.
 Loesch, Frank J.
 Loewenberg, Israel S.
 Loewenberg, M. L.
 Loewenherz, Emanuel
 Loewenstein, Sidney
 Loewenthal, Richard J.
 Logan, L. B.
 Long, William E.
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 Loucks, Charles O.
 Louer, Albert E. M.
 Louis, Mrs. John J.
 Love, Chase W.
 Lovell, William H.
 Lovgren, Carl
 Lucey, Patrick J.
 Ludington, Nelson J.
 Ludolph, Wilbur M.
 Lueder, Arthur C.
 Lufkin, Wallace W.
 Luria, Herbert A.
 Lurie, H. J.
 Lustgarten, Samuel
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 MacDonald, E. K.
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 Henry J.
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 Donald
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 Madlener, Otto
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 Magerstadt, Madeline
 Magill, John R.
 Magnus, Albert, Jr.
 Magnuson, Mrs. Paul
 Maher, Mrs. D. W.
 Main, Walter D.
 Maling, Albert
 Malone, William H.
 Manaster, Harry
 Mandel, Mrs. Aaron W.
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 Mandel, Miss Florence

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Manierre, Louis	Chauncey	Miller, John S.
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Mann, John P.	McCormick, Leander J.	Miller, Oscar C.
Manning, Miss	McCormick, Robert	Miller, Mrs. Phillip
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Mark, Mrs. Cyrus	McCrea, Mrs. W. S.	Miller, William S.
Marks, Arnold K.	McCready, Mrs. E. W.	Mills, Allen G.
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Marquis, A. N.	Gladys Alizabeth	Mills, Mrs. William S.
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Marsh, John	McDonald, E. F., Jr.	Miner, H. J.
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Marston, Mrs. Thomas B.	McDougall, Mrs.	Mitchell, John J.
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Martin, Samuel H.	McGraw, Max	Mitchell, Oliver
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Marzola, Leo A.	McIntosh, Mrs.	Mollan, Mrs. Ferne T.
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Matson, J. Edward	McMillan, W. B.	Moore, C. B.
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Maurer, Dr. Siegfried	McNamara, Louis G.	Moore, Philip Wyatt
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Maxwell, Lloyd R.	McNulty, Joseph D.	Moran, Brian T.
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Mayer, Isaac H.	Medsker, Dr. Ora L.	Morgan, Alden K.
Mayer, Oscar F.	Melcher, George Clinch	Morgan, Mrs.
Mayer, Oscar G.	Melendy, Dr. R. A.	Kendrick E.
Mayer, Theodore S.	Melnick, Leopold B.	Morris, Edward H.
McAllister, Sydney G.	Merrell, John H.	Morris, Mrs. Seymour
McAloon, Owen J.	Merriam, Miss Eleanor	Morrison, Mrs. C. R.
McArthur, Billings M.	Merrill, William W.	Morrison, Mrs. Harry
McAuley, John E.	Metz, Dr. A. R.	Morrison, James C.
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 Lehmann, Miss Thesy R.
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 Levine, William
 Levine, William D.
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 Levy, Mrs. Arthur K.
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 L'Hommedieu, Arthur
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 Lobdell, Harry H.
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 Loeb, Arthur A.
 Lofquist, Karl E.
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 Lord, John S.
 Lorenze, Arthur A.
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 Love, Joseph Kirk
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 Macfarland, Lanning
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Frederick A.
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Symon, Stow E.
Symonds, Merrill
Symons, John
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S., Jr.
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Teare, W. C.
Teitelbaum, Irving E.
Temps, Leupold
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Wahl, Arnold Spencer
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Webster, James
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Weinress, S. J.
Weismantel, Miss
Theresa A.

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Otis
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Turner
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Rollins, Athol E.

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